To: Butts, Sally[sbutts@blm.gov]

Cc: Miller, Ann[ann_miller@ios.doi.gov]; Simon, Benjamin[benjamin_simon@ios.doi.gov]; Nikki

Moore[nmoore@blm.gov]; Fisher, Timothy[tifisher@blm.gov]

From: Wootton, Rachel

Sent: 2017-07-14T17:47:11-04:00

Importance: Normal

Subject: Re: BLM economic snapshots

Received: 2017-07-14T17:50:09-04:00

Official Economic Contributions Workbook July Update.xlsx

Hi Ann.

Sorry for the delay. Please see the attached spreadsheet and let us know if you have any questions.

Have a great weekend, all!

Best,

Rachel

--

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On Fri, Jul 14, 2017 at 12:52 PM, Butts, Sally <sbutts@blm.gov> wrote:

Sure, we're glad to meet and discuss BLM visitation data whenever you'd like. Thanks for all of the good questions, Sally

On Fri, Jul 14, 2017 at 12:47 PM, Miller, Ann <ann miller@ios.doi.gov> wrote:

Hi Sally,

Thanks for all of this information. It is very helpful. Aside from the visitation for the purposes of the National Monuments review (which, with your response, I think we have enough information on at this point), it might be helpful to meet sometime in the future to learn more about the BLM visitation data. We can reach out later on to try to set something up.

Thanks again!

Ann

On Thu, Jul 13, 2017 at 6:35 PM, Butts, Sally <<u>sbutts@blm.gov</u>> wrote:

One more thing, we'll send the updated "official" spreadsheet tomorrow. Thanks for your patience, Sally

On Thu, Jul 13, 2017 at 6:24 PM, Butts, Sally <<u>sbutts@blm.gov</u>> wrote:

Hi Ann,

Thanks for your good questions and sorry for the detailed reply.

Visitor data is imprecise considering the collection methods and especially when dealing with co-managed and new units.

For Sand to Snow National Monument, it is a relatively new designation and the local office has not been able to create an 'office code' assigned to track and report visitation within RMIS (BLM's Recreation Information Management System) for the area. Since RMIS Reports 0 that is what our economic snapshot shows. Within the data call response, the BLM provided visitation tracked for two recreation sites to provide a metric, even though it doesn't show all of the Monument. The response from the data call is copied below:

The BLM uses the Recreation Management Information System (RMIS) to report visitor use. Full reporting for annual fiscal year 2017 visitation will not be available until the end of September 2017. Numbers from two visitor contact areas, Big Morongo Canyon and Whitewater Preserve, are available and is provided under headings iv and vi below.

iii. While specific visitation information to the Sand to Snow National Monument is not available through RMIS at this time, the Palm Springs South Coast Field Office confirms requests for overnight camping at the Whitewater Preserve area have increased by 12 % since designation. Visitation to the Black Lava Buttes unit of the monument increased by 15% since designation.

iv. The Big Morongo Canyon unit of the S2SNM saw a slight increase in visitation since Monument designation than in previous years. Included below are visitor numbers from the Big Morongo Canyon unit, numbers of which are determined through the use of a traffic counter at their main entrance:

2016 - 66.675 visitors

2017 - 45,000 visitors (partial 10/01/2016 to 05/15/2017)

There's a good argument that our economic snapshot could include the above visitor data but we chose to use the RMIS system to be consistent, imperfect as it is. In later years, we'll be able to update the RMIS data and update the economic information.

For Craters of the Moon National Monument the National Park Service provided the information in the data call. The BLM's only national data collection system for visitation with the BLM is RMIS. I have attached the 2016 RMIS report for your review (Visitation Data Craters of the Moon.pdf). For the BLM's economic analysis we reported the information that we have available in our system.

Regarding a definitive visitation number, it is difficult to answer. Federal land managers are continually working on ways to improve our visitation reporting. It is a complex system and there are so many factors that influence visitation and collection, not to mention each site being different. We collect the most complete information we can, but our visitation information is always an educated estimate.

Rachel and I would be happy to chat with you over the phone or come over to MIB and perhaps we could include some of our recreation staff who manage RMIS if that's helpful.

Have a nice evening, Sally

On Thu, Jul 13, 2017 at 5:16 PM, Miller, Ann <ann miller@ios.doi.gov> wrote:

Hi Rachel and Sally,

I've taken a second look at the visitation data we received for the data call for the various BLM-managed monuments and compared it to this updated spreadsheet that was sent today. There are a number of monuments where the visitation data provided in the data call responses/documentation don't match the visitation data in the spreadsheet. Some difference are small but some are really large. Craters of the Moon FY16 visitation is 3,654 in the spreadsheet and 255,436 in the data call response (I know this one is no longer "under review" but I still want to make sure the information we have prepared for it is accurate). Sand to Snow has visitation levels of zero for all three years in the spreadsheet but the data call response provided visitation estimates for FY13-16. In the cases where there are differences, do you know why these discrepancies exist and which source should be viewed as the "definitive" source? I'm happy to have another phone call tomorrow or next week if that would be easier.

Thanks again for all of your help!

On Thu, Jul 13, 2017 at 2:56 PM, Wootton, Rachel < rwootton@blm.gov > wrote:

Hi Ann,

No problem at all. I just found that document and will update it! I'll send it to you as soon as possible this afternoon!

Best,

Rachel

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On Thu, Jul 13, 2017 at 2:46 PM, Miller, Ann <ann miller@ios.doi.gov> wrote:

Thanks Rachel, and also thanks for taking the time to explain the issue to me today. The Excel file we initially received was the one titled "Official Workbook Economic Contributions of National Monuments and NCAs.xlsx". Do you have a version of this with the updated visitation data? If so, it would be extremely helpful to have that. Thanks!

Ann

On Thu, Jul 13, 2017 at 2:05 PM, Wootton, Rachel <<u>rwootton@blm.gov</u>> wrote:

Hi Anne,

Thank you for your email and chatting with us over the phone. As discussed, I've included the updated spreadsheet. This information was used to create the updated economic snapshots on the drive. FY16 visitation information has not changed. Feel free to let us know if you all need additional information or would like it in a different format. I am not sure what spreadsheet you all received initially, but we could certainly put it in that format if need.

Please let us know if you have any questions and thanks again!

Best,

Rachel

--

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On Thu, Jul 13, 2017 at 1:15 PM, Miller, Ann <ann miller@ios.doi.gov> wrote:

Hi Sally,

I understand that the economic snapshots in the google drive for the BLM monuments under review were updated with revisions to the FY14 and FY15 visitor data. I believe we have the underlying source data for the visitation levels (this analysis of the economic contributions of National Monuments and NCAs had been shared with us separately) and in comparing it to the updated snapshots, I found a handful of monuments where the data presented in the snapshots do not match the underlying data. I confirmed that it is unlikely the that underlying source data has changed since it was shared with us so I think it may be worth checking that the data in the economic snapshots is correct. The issue I found is consistent across a handful of monuments, and it is that the FY15 visitation numbers are being presented in the FY14 box of the snapshot and the numbers being presented in the FY15 box of the snapshot are another number (I can't match it up with anything in the source data we were given). The snapshots that I found this issue with are:

- -Canyons of the Ancients
- -Carrizo Plain
- -Craters of the Moon
- -Upper Missouri River Breaks
- -Cascade-Siskiyou
- -Grand Staircase-Escalante

Thanks

Ann

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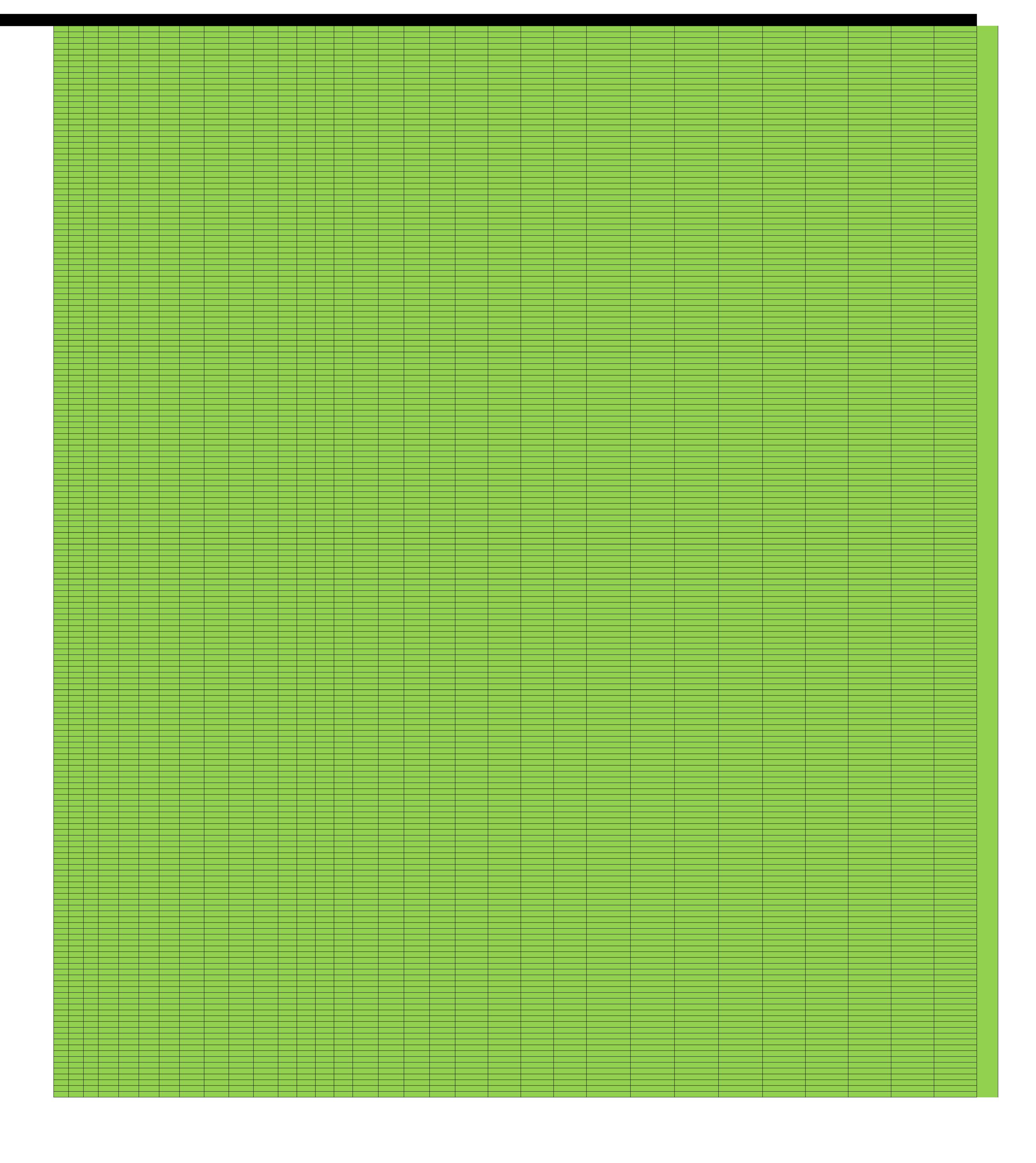
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This spreadsheet contains data to generate a report on the economic contributions of visitors to National Monuments and NCAs (excluding the most recently designated units of Bears Ears and Gold Butte). There are many hidden tabs which contain the calculations, but the only thing that needs to be inputted into this sheet is visitation data from each monument and NCA for the fiscal years 2017 and 2018. These should be entered into the "Visits" tab. For this analysis, I have used the number of "visits" (not visitor days) reported in RMIS for the office or RMA associated with the unit. These are found in report #23c in RMIS. The results will autofill in the "Economic Contributions" tab. Displayed in this tab are four columns of results for each fiscal year 2014-2018: employment, labor income, value added and output. These are defined as follows:

Employment

the annual average of monthly jobs, both part-time and full-time. One part- or full-time job lasting twelve months is equivalent to two part- or full-time jobs lasting six months. Note that these jobs are those supported by visitor spending, not necessarily jobs "created" by the unit. Some of the reported jobs would still exist without tourism generated from the National Conservation Lands unit. Additionally, since this analysis only tracks visitor spending on trip-related goods and services, it does not directly calculate jobs associated with monument management. For the most part, BLM jobs are distinct from other jobs supported by visitation measured in an IMPLAN analysis.

Labor Income all forms of employment income, including wages, benefits, and proprietor income. Labor income

represents a portion the amount reported for value added.

Value Added the contribution of visitor spending to the Gross Domestic Product (GDP) of a regional economy. Value

added is equal to the difference between the sale price of all goods sold and the production value of the goods. In other words, if a consumer spent \$100 at a motel and the operational and material expenses of the business to provide that room were \$40, then \$60 of value is added to the economy.

Output the total production value of goods and services supported by visitor spending. It is the sum of consumer purchases, exports, and intermediate sales between businesses.

About the Results

The results in the "Economic Contributions" tab are based on several data sources. First, the amount of visitation is directly related to the amount of economic contributions. Higher visitation means a greater amount of spending in the region and thus a greater amount of economic activity supported by the unit. Visitation estiamtes are reported by units and taken from BLM's Recreation Management Information System (RMIS). The amount of spending by visitors is based on surveys from the National Park Service's Visitor Services Project (VSP). Spending profiles are reported from these surveys for local, nonlocal, onsite camping, offsite camping, and offsite lodging visitors per day for day visitors and per night for overnight visits. In order to estimate the proportion of visitors that fall into each category, each National Monument or NCA was matched up with a National Park Service site that has either been surveyed or has used a generic profile derived from the many surveys completed thus far as part of the VSP. The final estimated visitor spending at each site was multiplied by employment, labor income, value added and output multipliers from an inputoutput economic modeling software called IMPLAN. IMPLAN uses data from the Bureau of Economic Analysis and other sources to generate a complex accounting matrix that shows the linkages between over 500 different sectors in regional economies. In this analysis, a model for each state 's economy was used to estimate regional economic contributions. A county-level or national-level analysis is also an option for an economic contribution analysis. In general, a county-level model provides a smaller window of businesses and communities that may be linked to spending on monument visits, while a national model will inflate the contributions results since all linkages across the entire United States will be included as an effect of visitor spending in a local monument region. The IMPLAN data was used from 2013 and inflated accordingly to match the study year.

How the 2017 and 2018 results were calculated

The 2017 and 2018 economic contributions are calculated by inflating the economic multipliers and spending profiles to match the dollar values in each year. Since the spending profiles and visitor characteristics will not change over time unless new survey data is produced, the main consideration for estimating economic contributions in the future is inflation. Inflation projections were provided by IMPLAN and are generated by projecting previous rates of inflation into future years. When a newer version of IMPLAN is purchased, these calculations could be updated. I chose to limit the projections to 5 years past the date of the IMPLAN software to avoid error that may arise by projecting inflation too far into the future.

Prepared by: Egan Cornachione, GeoCorps intern with National Conservation Lands. Contact: 541-331-3999 or

eganc31@gmail.com

More details on the methodology (see Economic Report, Appendices for More Details):

Methodology for Estimating Visitor Spending Effects on National Conservation Lands

Economic contribution analysis of the National Conservation Lands visitors requires several different types of data. The four main types of information required are: number of visitors, visitor characteristics, spending patterns of visitors, and regional economic multipliers. Although the Bureau of Land Management conducted two pilot projects of a visitor use monitoring program in 2006 and 2009, there is very little data available on visitor characteristics and spending patterns of visitors (White nd). Units report annual visitation estimates and activity participation to the BLM's Recreation Management Information System (RMIS). Regional economic multipliers were generated for this project using the IMPLAN software and data system (IMPLAN Group LLC).

Due to a lack of primary data on visitor characteristics and spending patterns, several assumptions were made in order to produce the most credible model for estimating economic contributions of National Monument and NCA visitors. The most significant assumption is that National Monument and NCA visitors are likely similar to visitors to National Forests and National Parks. The USFS and NPS both have visitor use monitoring programs in place to track visitor spending habits and group characteristics. The USFS National Visitor Use Monitoring (NVUM) program surveys each individual forest unit every five years. Since 2003, the NPS has surveyed its visitors about their spending patterns as part of its Visitor Services Program (VSP), generating profiles for 57 individual parks. The USFS NVUM estimations of visitor spending and visitor characteristics are used annually by the BLM to produce the recreation economic contributions component of the brochure, "BLM: A Sound Investment for America" (BLM 2016). The NPS estimates are used to

| Units | LocalDay | NLDay | LodgeIN | CamplN | LodgeOut | CampOut | Other | Total |
|--|----------|-------|---------|--------|--------------|---------|-------|--------------|
| Steese NCA | 0.0 | 0.0 | 0.0 | 0.0 | 19.0 | 0.0 | 0.0 | 19.0 |
| Sonoran Desert | 0.0 | 0.0 | 0.0 | 0.0 | 19.0 | 0.0 | 0.0 | 19.0 |
| Las Cienegas NCA | 0.0 | 0.0 | 0.0 | 0.0 | 19.0 | 0.0 | 0.0 | 19.0 |
| Vermilion Cliffs | 0.0 | 0.0 | 0.0 | 0.0 | 19.0 | 0.0 | 0.0 | 19.0 |
| Ironwood Forest | 0.0 | 0.0 | 0.0 | 0.0 | 19.0 | 0.0 | 0.0 | 19.0 |
| Agua Fria | 0.0 | 0.0 | 0.0 | 0.0 | 16.9 | 0.0 | 0.0 | 16.9 |
| Grand Canyon-Parashant | 0.0 | 0.0 | 0.0 | 0.0 | 19.0 | 0.0 | 0.0 | 19.0 |
| Gila Box Riparian NCA | 0.0 | 0.0 | 0.0 | 0.0 | 19.0 | 0.0 | 0.0 | 19.0 |
| San Pedro Riparian NCA | 0.0 | 0.0 | 0.0 | 0.0 | 16.9 | 0.0 | 0.0 | 16.9 |
| Mojave Trails | 0.0 | 0.0 | 0.0 | 0.0 | 16.9 | 0.0 | 0.0 | 16.9 |
| Sand to Snow | 0.0 | 0.0 | 0.0 | | 15.3 | 0.0 | | 15.3 |
| Berryessa Snow Mountain | 0.0 | 0.0 | 0.0 | | 19.0 | 0.0 | | 19.0 |
| Fort Ord | 0.0 | 0.0 | 0.0 | | 16.9 | 0.0 | | 16.9 |
| Piedras Blancas Historic Light Station ONA | 0.0 | 0.0 | 0.0 | 0.0 | 16.9 | 0.0 | | 16.9 |
| Carrizo Plain | 0.0 | 0.0 | 0.0 | 0.0 | 19.0 | 0.0 | 0.0 | 19.0 |
| Santa Rosa and San Jacinto Mountains | 0.0 | | 0.0 | | 15.3 | 0.0 | | 15.3 |
| California Coastal | 0.0 | 0.0 | 0.0 | | 19.0 | 0.0 | | 19.0 |
| Headwaters Forest Reserve | 0.0 | 0.0 | 0.0 | | 19.0 | 0.0 | | 19.0 |
| King Range NCA | 0.0 | 0.0 | 0.0 | 0.0 | 19.0 | 0.0 | 0.0 | 19.0 |
| Browns Canyon | 0.0 | 0.0 | 0.0 | 0.0 | 19.0 | 0.0 | 0.0 | 19.0 |
| Dominguez-Escalante NCA | 0.0 | 0.0 | 0.0 | | 19.0 | 0.0 | | 19.0 |
| McInnis Canyons NCA | 0.0 | 0.0 | 0.0 | 0.0 | 19.0 | 0.0 | 0.0 | 19.0 |
| Canyons of the Ancients Gunnison Gorge NCA | 0.0 | 0.0 | 0.0 | 0.0 | 19.0 19.0 | 0.0 | | 19.0 19.0 |
| Jupiter Inlet Lighthouse ONA | 0.0 | 0.0 | 0.0 | | 16.9 | 0.0 | | 16.9 |
| Craters of the Moon | 0.0 | 0.0 | 0.0 | 0.0 | 7.4 | 0.0 | | 7.4 |
| Morley Nelson Snake River Birds of Prey NCA | 0.0 | 0.0 | 0.0 | 0.0 | 16.9 | 0.0 | 0.0 | 16.9 |
| Pompeys Pillar | 0.0 | 0.0 | 0.0 | | 16.9 | 0.0 | | 16.9 |
| Upper Missouri River Breaks | 0.0 | 0.0 | 0.0 | 0.0 | 10.7 | 0.0 | 0.0 | 10.7 |
| Organ Mountains-Desert Peaks | 0.0 | | | | | 0.0 | | |
| Rio Grande del Norte | 0.0 | | | | 19.0 | | | 19.0 |
| Prehistoric Trackways | 0.0 | | 0.0 | | 14.7 | 0.0 | | 14.7 |
| Fort Stanton-Snowy River Cave NCA | 0.0 | | 0.0 | | 14.7 | 0.0 | | 14.7 |
| Kasha-Katuwe Tent Rocks | 0.0 | | 0.0 | | 19.0 | 0.0 | | 19.0 |
| El Malpais NCA | 0.0 | | 0.0 | 0.0 | 16.9 | 0.0 | | 16.9 |
| Basin and Range | 0.0 | 0.0 | 0.0 | | 19.0 | | | 19.0 |
| Sloan Canyon NCA | 0.0 | | 0.0 | 0.0 | 10.7 | 0.0 | | 10.7 |
| Black Rock Desert-High Rock Canyon Emigrant Trails NCA | 0.0 | 0.0 | 0.0 | 0.3 | 8.7 | 0.0 | 0.0 | 9.0 |
| Red Rock Canyon NCA | 0.0 | 0.0 | 0.0 | 0.0 | 10.7 | 0.0 | 0.0 | 10.7 |
| Steens Mountain CMPA | 0.0 | 0.0 | 0.0 | 0.0 | 13.5 | 0.3 | 0.0 | 13.8 |
| Cascade-Siskiyou | 0.0 | 0.0 | 0.0 | 0.0 | 19.0 | 0.0 | 0.0 | 19.0 |
| Yaquina Head ONA | 0.0 | 0.0 | 0.0 | 0.0 | 16.9 | 0.0 | 0.0 | 16.9 |
| Red Cliffs NCA | 0.0 | 0.0 | 0.0 | 0.0 | 19.0 | 0.0 | 0.0 | 19.0 |
| Beaver Dam Wash NCA | 0.0 | 0.0 | 0.0 | 0.0 | 10.7 | 0.0 | 0.0 | 10.7 |
| Grand Staircase-Escalante | 0.0 | 0.0 | 0.0 | 0.3 | 22.5 | 0.0 | 0.0 | 22.7 |
| San Juan Islands | 0.0 | 0.0 | 0.0 | 0.0 | 16.9 | 0.0 | 0.0 | 16.9 |

| Units | LocalDay | NLDay | LodgeIN | CamplN | LodgeOut | CampOut | Other | All |
|--|----------|-------|---------|--------|----------|---------|-------|------|
| Steese NCA | 0.7 | 7.1 | 0.0 | 1.8 | 41.1 | 3.6 | 3.2 | 57.5 |
| Sonoran Desert | 0.7 | 7.1 | 0.0 | 1.8 | 41.1 | 3.6 | 3.2 | 57.5 |
| Las Cienegas NCA | 0.7 | 7.1 | 0.0 | 1.8 | 41.1 | 3.6 | 3.2 | 57.5 |
| Vermilion Cliffs | 0.7 | 7.1 | 0.0 | 1.8 | 41.1 | 3.6 | 3.2 | 57.5 |
| Ironwood Forest | 0.7 | 7.1 | 0.0 | 1.8 | 41.1 | 3.6 | 3.2 | 57.5 |
| Agua Fria | 2.4 | 7.1 | 0.0 | 0.0 | 36.0 | 4.9 | 3.8 | 54.2 |
| Grand Canyon-Parashant | 0.7 | 7.1 | 0.0 | 1.8 | 41.1 | 3.6 | 3.2 | 57.5 |
| Gila Box Riparian NCA | 0.7 | 7.1 | 0.0 | 1.8 | 41.1 | 3.6 | 3.2 | 57.5 |
| San Pedro Riparian NCA | 2.4 | 7.1 | 0.0 | 0.0 | 36.0 | 4.9 | 3.8 | 54.2 |
| Mojave Trails | 2.4 | 7.1 | 0.0 | 0.0 | 36.0 | 4.9 | 3.8 | 54.2 |
| Sand to Snow | 0.4 | 8.8 | 0.0 | 4.2 | 28.9 | 0.0 | 1.1 | 43.4 |
| Berryessa Snow Mountain | 0.7 | 7.1 | 0.0 | 1.8 | 41.1 | 3.6 | 3.2 | 57.5 |
| Fort Ord | 2.4 | 7.1 | 0.0 | 0.0 | 36.0 | 4.9 | 3.8 | 54.2 |
| Piedras Blancas Historic Light Station ONA | 2.4 | 7.1 | 0.0 | 0.0 | 36.0 | 4.9 | 3.8 | 54.2 |
| Carrizo Plain | 0.7 | 7.1 | 0.0 | 1.8 | 41.1 | 3.6 | 3.2 | 57.5 |
| Santa Rosa and San Jacinto Mountains | 0.4 | 8.8 | 0.0 | 4.2 | 28.9 | 0.0 | 1.1 | 43.4 |
| California Coastal | 0.7 | 7.1 | 0.0 | 1.8 | 41.1 | 3.6 | 3.2 | 57.5 |
| Headwaters Forest Reserve | 0.7 | 7.1 | 0.0 | 1.8 | 41.1 | 3.6 | 3.2 | 57.5 |
| King Range NCA | 0.7 | 7.1 | 0.0 | 1.8 | 41.1 | 3.6 | 3.2 | 57.5 |
| Browns Canyon | 0.7 | 7.1 | 0.0 | 1.8 | 41.1 | 3.6 | 3.2 | 57.5 |
| Dominguez-Escalante NCA | 0.7 | 7.1 | 0.0 | 1.8 | 41.1 | 3.6 | 3.2 | 57.5 |
| McInnis Canyons NCA | 0.7 | 7.1 | 0.0 | 1.8 | 41.1 | 3.6 | 3.2 | 57.5 |
| Canyons of the Ancients | 0.7 | 7.1 | 0.0 | 1.8 | 41.1 | 3.6 | 3.2 | 57.5 |
| Gunnison Gorge NCA | 0.7 | 7.1 | 0.0 | 1.8 | 41.1 | 3.6 | 3.2 | 57.5 |
| Jupiter Inlet Lighthouse ONA | 2.4 | 7.1 | 0.0 | 0.0 | 36.0 | 4.9 | 3.8 | 54.2 |
| Craters of the Moon | 0.4 | 6.8 | 0.0 | 0.9 | 17.7 | 3.1 | 2.3 | 31.2 |
| Morley Nelson Snake River Birds of Prey NCA | 2.4 | 7.1 | 0.0 | 0.0 | 36.0 | 4.9 | 3.8 | 54.2 |
| Pompeys Pillar | 2.4 | 7.1 | 0.0 | 0.0 | 36.0 | 4.9 | 3.8 | 54.2 |
| Upper Missouri River Breaks | 4.4 | 5.6 | 0.0 | 1.8 | 20.5 | 3.8 | 3.9 | 40.2 |
| Organ Mountains-Desert Peaks | 0.7 | 11.8 | 0.0 | 0.0 | 31.8 | 1.7 | 2.8 | 48.8 |
| Rio Grande del Norte | 0.7 | 7.1 | 0.0 | 1.8 | 41.1 | 3.6 | 3.2 | 57.5 |
| Prehistoric Trackways | 0.7 | 11.8 | 0.0 | 0.0 | 31.8 | 1.7 | 2.8 | 48.8 |
| Fort Stanton-Snowy River Cave NCA | 0.7 | 11.8 | 0.0 | 0.0 | 31.8 | 1.7 | 2.8 | 48.8 |
| Kasha-Katuwe Tent Rocks | 0.7 | 7.1 | 0.0 | 1.8 | 41.1 | 3.6 | 3.2 | 57.5 |
| El Malpais NCA | 2.4 | 7.1 | 0.0 | 0.0 | 36.0 | 4.9 | 3.8 | 54.2 |
| Basin and Range | 0.7 | 7.1 | 0.0 | 1.8 | 41.1 | 3.6 | 3.2 | 57.5 |
| Sloan Canyon NCA | 4.4 | 5.6 | 0.0 | 1.8 | 20.5 | 3.8 | 3.9 | 40.2 |
| Black Rock Desert-High Rock Canyon Emigrant Trails NCA | 1.3 | 8.4 | 0.0 | 2.7 | 18.5 | 0.0 | 6.8 | 37.7 |
| Red Rock Canyon NCA | 4.4 | 5.6 | 0.0 | 1.8 | 20.5 | 3.8 | 3.9 | 40.2 |
| Steens Mountain CMPA | 0.6 | 3.5 | 0.0 | 0.0 | 26.2 | 9.7 | 2.5 | 42.5 |
| Cascade-Siskiyou | 0.7 | 7.1 | 0.0 | 1.8 | 41.1 | 3.6 | 3.2 | 57.5 |
| Yaquina Head ONA | 2.4 | 7.1 | 0.0 | 0.0 | 36.0 | 4.9 | 3.8 | 54.2 |
| Red Cliffs NCA | 0.7 | 7.1 | 0.0 | 1.8 | 41.1 | 3.6 | 3.2 | 57.5 |
| Beaver Dam Wash NCA | 4.4 | 5.6 | 0.0 | | 20.5 | 3.8 | | 40.2 |
| Grand Staircase-Escalante | 0.2 | 2.9 | 0.0 | 2.7 | 49.9 | 5.2 | 2.5 | 63.4 |
| San Juan Islands | 2.4 | 7.1 | 0.0 | 0.0 | 36.0 | 4.9 | 3.8 | 54.2 |

| Units Steese NCA | LocalDay | | | | LodgeOut 121.4 | | | All 275.6 | 2013 30764 | 2014 9204 | 2015 So 7115 | ort 1 |
|--|----------|------|-----|------|-------------------|----------|------|-----------|------------------|------------------|------------------|----------|
| | | 2011 | 0.0 | 02.0 | | 07.0 | | | 30764 | 9204 | 7115 | 1 |
| | | | | | | | | | 30764 | 9204 | 7115 | 1 |
| Sonoran Desert | 12.3 | 20.4 | 0.0 | 31.0 | 121.4 | 67.9 | 22.5 | 275.6 | 30764 26835 | 9204 26560 | 7115 29894 | 1 |
| Soliofali Desert | 12.5 | 20.4 | 0.0 | 51.0 | 121.4 | 67.9 | 22.5 | 2/3.0 | 26835 | 26560 | 29894 | 2 |
| | | | | | | | | | 26835 | 26560 | 29894 | 2 |
| | | | | | | | | | 26835 | 26560 | 29894 | 2 |
| Las Cienegas NCA | 12.3 | 20.4 | 0.0 | 31.0 | 121.4 | 67.9 | 22.5 | 275.6 | 23117 23117 | 25240 25240 | 25499 25499 | 3 |
| | | | | | | | | | 23117 | 25240 25240 | 25499 25499 | 3 |
| | | | | | | | | | 23117 | 25240 | 25499 | 3 |
| Vermilion Cliffs | 12.3 | 20.4 | 0.0 | 31.0 | 121.4 | 67.9 | 22.5 | 275.6 | 119555 | 168917 | 160568 | 4 |
| | | | | | | | | | 119555 | 168917 | 160568 | 4 |
| | | | | | | | | | 119555 119555 | 168917 168917 | 160568 160568 | 4 4 |
| Ironwood Forest | 12.3 | 20.4 | 0.0 | 31.0 | 121.4 | 67.9 | 22.5 | 275.6 | 30373 | 43640 | 47435 | 5 |
| | | | | | | | | | 30373 | 43640 | 47435 | 5 |
| | | | | | | | | | 30373 | 43640 | 47435 | 5 |
| Agua Fria | 15.0 | 17.9 | 0.0 | 0.0 | 142.2 | 80.8 | 29.7 | 285.7 | 30373 86324 | 43640 78431 | 47435 79500 | 5 6 |
| Agua IIIa | 15.0 | 17.9 | 0.0 | 0.0 | 142.2 | 80.8 | 23.7 | 203.7 | 86324 | 78431 78431 | 79500 | 6 |
| | | | | | | | | | 86324 | 78431 | 79500 | 6 |
| | | | | | | | | | 86324 | 78431 | 79500 | 6 |
| Grand Canyon-Parashant | 12.3 | 20.4 | 0.0 | 31.0 | 121.4 | 67.9 | 22.5 | 275.6 | 86745 | 90631 | 31188 | 7 |
| | | | | | | | | | 86745 86745 | 90631 90631 | 31188 31188 | 7 7 |
| | | | | | | | | | 86745 | 90631 | 31188 | 7 |
| Gila Box Riparian NCA | 12.3 | 20.4 | 0.0 | 31.0 | 121.4 | 67.9 | 22.5 | 275.6 | 39220 | 39979 | 35523 | 8 |
| | | | | | | | | | 39220 | 39979 | 35523 | 8 |
| | | | | | | | | | 39220 39220 | 39979 | 35523 35523 | 8 |
| San Pedro Riparian NCA | 15.0 | 17.9 | 0.0 | 0.0 | 142.2 | 80.8 | 29.7 | 285.7 | 137859 | 39979 140001 | 35523 144741 | 8 9 |
| San Tears Inparian Next | 15.0 | 17.5 | 0.0 | 0.0 | 112.2 | 00.0 | 23.7 | 203.7 | 137859 | 140001 | 144741 | 9 |
| | | | | | | | | | 137859 | 140001 | 144741 | 9 |
| | 45.0 | 47.0 | 0.0 | 0.0 | 4.40.0 | 20.0 | 20.7 | 205.7 | 137859 | 140001 | 144741 | 9 |
| Mojave Trails | 15.0 | 17.9 | 0.0 | 0.0 | 142.2 | 80.8 | 29.7 | 285.7 | | | | 10 10 |
| | | | | | | | | | | | | 10 |
| | | | | | | | | | | | | 10 |
| Sand to Snow | 4.7 | 20.5 | 0.0 | 27.9 | 120.5 | 0.0 | 11.2 | 184.9 | | | | 11 |
| | | | | | | | | | | | | 11 |
| | | | | | | | | | | | | 11 11 |
| Berryessa Snow Mountain | 12.3 | 20.4 | 0.0 | 31.0 | 121.4 | 67.9 | 22.5 | 275.6 | | | | 12 |
| | | | | | | | | | | | | 12 |
| | | | | | | | | | | | | 12 |
| Fort Ord | 15.0 | 17.9 | 0.0 | 0.0 | 142.2 | 80.8 | 29.7 | 285.7 | 167091 | 189735 | 499112 | 12 13 |
| Total Old | 15.0 | 17.5 | 0.0 | 0.0 | 172.2 | 00.0 | 23.7 | 203.7 | 167091 | 189735 | 499112 | 13 |
| | | | | | | | | | 167091 | 189735 | 499112 | 13 |
| | | | | | | | | | 167091 | 189735 | 499112 | 13 |
| Piedras Blancas Historic Light Station ONA | 15.0 | 17.9 | 0.0 | 0.0 | 142.2 | 80.8 | 29.7 | 285.7 | 7616 7616 | 6711 6711 | 6106 6106 | 14 14 |
| | | | | | | | | | 7616 | 6711 | 6106 | 14 |
| | | | | | | | | | 7616 | 6711 | 6106 | 14 |
| Carrizo Plain | 12.3 | 20.4 | 0.0 | 31.0 | 121.4 | 67.9 | 22.5 | 275.6 | 22596 | 61148 | 54253 | 15 |
| | | | | | | | | | 22596 | 61148 | 54253 | 15 15 |
| | | | | | | | | | 22596 22596 | 61148 61148 | 54253 54253 | 15 15 |
| Santa Rosa and San Jacinto Mountains | 4.7 | 20.5 | 0.0 | 27.9 | 120.5 | 0.0 | 11.2 | 184.9 | 259285 | 236898 | 230173 | 16 |
| | | | | | | | | | 259285 | 236898 | 230173 | 16 |
| | | | | | | | | | 259285 | 236898 | 230173 | 16 |
| California Coastal | 12.3 | 20.4 | 0.0 | 31.0 | 121.4 | 67.9 | 22.5 | 275.6 | 259285 37100 | 236898 36500 | 230173 15000 | 16 17 |
| California Coastai | 12.3 | 20.4 | 0.0 | 31.0 | 121.4 | 07.5 | 22.3 | 273.0 | 37100 | 36500 | 15000 | 17 |
| | | | | | | | | | 37100 | 36500 | 15000 | 17 |
| | | | | | | | | | 37100 | 36500 | 15000 | 17 |
| Headwaters Forest Reserve | 12.3 | 20.4 | 0.0 | 31.0 | 121.4 | 67.9 | 22.5 | 275.6 | 35400 35400 | 33245 33245 | 33810 33810 | 18 18 |
| | | | | | | | | | 35400 | 33245 | 33810 | 18 |
| | | | | | | | | | 35400 | 33245 | 33810 | 18 |
| King Range NCA | 12.3 | 20.4 | 0.0 | 31.0 | 121.4 | 67.9 | 22.5 | 275.6 | 101961 | 95286 | 104189 | 19 |
| | | | | | | | | | 101961 | 95286 | 104189 | 19 10 |
| | | | | | | | | | 101961 101961 | 95286 95286 | 104189 104189 | 19 19 |
| Browns Canyon | 12.3 | 20.4 | 0.0 | 31.0 | 121.4 | 67.9 | 22.5 | 275.6 | | - | 10 +10 <i>3</i> | 20 |
| | | | | | | | | | | | | 20 |
| | | | | | | | | | | | | 20 |
| Dominguez-Escalante NCA | 12.3 | 20.4 | 0.0 | 31.0 | 121.4 | 67.9 | 22.5 | 275.6 | 48986 | 98705 | 92567 | 20 21 |
| | 12.3 | 20.4 | | 31.0 | 261.7 | <u> </u> | | 273.0 | 48986 | 98705 | 92567 | 21 |
| | | | | | | | | | 48986 | 98705 | 92567 | 21 |
| | | | | | | | | | | | | |

| McInnis Canyons NCA | 12.3 | 20.4 | 0.0 | 31.0 | 121.4 | 67.9 | 22.5 | 275.6 | 48986 261133 261133 261133 | 98705 295491 295491 295491 | 92567 283063 283063 283063 | 21 22 22 22 |
|--|------|------|-----|------|-------|------|------|-------|--|--|--|----------------------------|
| Canyons of the Ancients | 12.3 | 20.4 | 0.0 | 31.0 | 121.4 | 67.9 | 22.5 | 275.6 | 261133 261133 67000 67000 | 295491 76252 76252 76252 | 283063 283063 68497 68497 | 22 23 23 23 |
| Gunnison Gorge NCA | 12.3 | 20.4 | 0.0 | 31.0 | 121.4 | 67.9 | 22.5 | 275.6 | 67000 198202 198202 198202 | 76252 172688 172688 172688 | 68497 182575 182575 182575 | 23 24 24 24 |
| Jupiter Inlet Lighthouse ONA | 15.0 | 17.9 | 0.0 | 0.0 | 142.2 | 80.8 | 29.7 | 285.7 | 198202 77300 77300 77300 | 172688 70020 70020 70020 | 182575 67931 67931 67931 | 24 25 25 25 |
| Craters of the Moon | 8.6 | 13.1 | 0.0 | 21.7 | 98.6 | 51.2 | 15.6 | 208.8 | 77300 3276 3276 3276 | 70020 3715 3715 3715 | 67931 3654 3654 3654 | 25 26 26 26 |
| Morley Nelson Snake River Birds of Prey NCA | 15.0 | 17.9 | 0.0 | 0.0 | 142.2 | 80.8 | 29.7 | 285.7 | 3276 195247 195247 195247 | 3715 196270 196270 196270 | 3654 197235 197235 197235 | 26 27 27 27 |
| Pompeys Pillar | 15.0 | 17.9 | 0.0 | 0.0 | 142.2 | 80.8 | 29.7 | 285.7 | 195247 32000 32000 32000 | 196270 44000 44000 44000 | 197235 32000 32000 32000 | 27 28 28 28 |
| Upper Missouri River Breaks | 14.8 | 21.3 | 0.0 | 31.8 | 125.9 | 60.8 | 25.3 | 279.8 | 32000 17746 17746 17746 | 44000 56106 56106 56106 | 32000 24699 24699 24699 | 28 29 29 29 |
| Organ Mountains-Desert Peaks | 8.8 | 25.9 | 0.0 | 0.0 | 114.7 | 37.2 | 19.9 | 206.5 | 17746 | 56106 | 24699 | 29 30 30 30 |
| Rio Grande del Norte | 12.3 | 20.4 | 0.0 | 31.0 | 121.4 | 67.9 | 22.5 | 275.6 | | | | 30 31 31 31 |
| Prehistoric Trackways | 8.8 | 25.9 | 0.0 | 0.0 | 114.7 | 37.2 | 19.9 | 206.5 | | | | 31 32 32 32 |
| Fort Stanton-Snowy River Cave NCA | 8.8 | 25.9 | 0.0 | 0.0 | 114.7 | 37.2 | 19.9 | 206.5 | 32647 32647 32647 | 5082 5082 5082 | 25778 25778 25778 | 32 33 33 33 |
| Kasha-Katuwe Tent Rocks | 12.3 | 20.4 | 0.0 | 31.0 | 121.4 | 67.9 | 22.5 | 275.6 | 32647 222946 222946 222946 | 5082 222946 222946 222946 | 25778 366400 366400 366400 | 33 34 34 34 |
| El Malpais NCA | 15.0 | 17.9 | 0.0 | 0.0 | 142.2 | 80.8 | 29.7 | 285.7 | 222946 115642 115642 115642 | 222946 171411 171411 171411 | 366400 173043 173043 173043 | 34 35 35 35 |
| Basin and Range | 12.3 | 20.4 | 0.0 | 31.0 | 121.4 | 67.9 | 22.5 | 275.6 | 115642 | 171411 | 173043 | 35 36 36 36 36 |
| Sloan Canyon NCA | 14.8 | 21.3 | 0.0 | 31.8 | 125.9 | 60.8 | 25.3 | 279.8 | 55684 55684 55684 | 85362 85362 85362 85362 | 136125 136125 136125 136125 | 37 37 37 37 |
| Black Rock Desert-High Rock Canyon Emigrant Trails NCA | 9.0 | 20.9 | 0.0 | 33.8 | 80.2 | 0.0 | 48.7 | 192.7 | 154977 154977 154977 154977 | 116857 116857 116857 116857 | 128723 128723 128723 128723 | 38 38 38 38 |
| Red Rock Canyon NCA | 14.8 | 21.3 | 0.0 | 31.8 | 125.9 | 60.8 | 25.3 | 279.8 | 1019209 1019209 1019209 1019209 | 2705707 2705707 2705707 2705707 | 1753250 1753250 1753250 1753250 | 39 39 39 39 |
| Steens Mountain CMPA | 10.4 | 9.8 | 0.0 | 0.0 | 107.0 | 52.9 | 15.6 | 195.7 | 190784 190784 190784 190784 | 221939 221939 221939 221939 | 248146 248146 248146 248146 | 40 40 40 40 |
| Cascade-Siskiyou | 12.3 | 20.4 | 0.0 | 31.0 | 121.4 | 67.9 | 22.5 | 275.6 | 162354 162354 162354 162354 | 130332 130332 130332 130332 | 121058 121058 121058 121058 121058 | 41 41 41 41 |
| Yaquina Head ONA | 15.0 | 17.9 | 0.0 | 0.0 | 142.2 | 80.8 | 29.7 | 285.7 | 327901 327901 327901 | 308709 308709 308709 | 313000 313000 313000 | 42 42 42 42 |

| Red Cliffs NCA | 12.3 | 20.4 | 0.0 | 31.0 | 121.4 | 67.9 | 22.5 | 275.6 | 327901 139391 | 308709 130276 | 313000 130031 | 42 43 |
|---------------------------|------|------|-----|------|-------|------|------|---------|------------------|------------------|------------------|----------|
| | | | | | | | | | 139391 | 130276 | 130031 | 43 |
| | | | | | | | | | 139391 | 130276 | 130031 | 43 |
| | | | | | | | | | 139391 | 130276 | 130031 | 43 |
| Beaver Dam Wash NCA | 14.8 | 21.3 | 0.0 | 31.8 | 125.9 | 60.8 | 25.3 | 279.8 | 10544 | 12009 | 10145 | 44 |
| | | | | | | | | | 10544 | 12009 | 10145 | 44 |
| | | | | | | | | | 10544 | 12009 | 10145 | 44 |
| | | | | | | | | | 10544 | 12009 | 10145 | 44 |
| Grand Staircase-Escalante | 12.0 | 14.3 | 0.0 | 48.8 | 118.8 | 51.8 | 12.4 | 258.1 | 788817 | 797283 | 917320 | 45 |
| | | | | | | | | | 788817 | 797283 | 917320 | 45 |
| | | | | | | | | | 788817 | 797283 | 917320 | 45 |
| | | | | | | | | | 788817 | 797283 | 917320 | 45 |
| San Juan Islands | 15.0 | 17.9 | 0.0 | 0.0 | 142.2 | 80.8 | 29.7 | 285.7 - | - | - | | 46 |
| | | | | | | | | | | | | 46 |
| | | | | | | | | | | | | 46 |

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Enter 2017 and 2018 Visitation Data Here to Get Updated Economic Contributions Results in Next Tab

| Unit (listed four times to simplify calculations) | State | 2014 | 2015 | 2016 | 2017 | 2018 |
|--|------------|-----------|---------|-----------|------|------|
| Steese NCA | Alaska | 7,115 | 18,693 | 22,568 | | |
| Sonoran Desert | Arizona | 29,894 | 40,310 | 51,278 | | |
| Las Cienegas NCA | Arizona | 25,499 | 26,735 | 28,282 | | |
| Vermilion Cliffs | Arizona | 160,568 | 188,881 | 275,845 | | |
| Ironwood Forest | Arizona | 47,435 | 58,020 | 23,600 | | |
| Agua Fria | Arizona | 79,500 | 162,431 | 78,775 | | |
| Grand Canyon-Parashant | Arizona | 31,188 | 11,890 | 30,350 | | |
| Gila Box Riparian NCA | Arizona | 35,523 | 33,255 | 25,073 | | |
| San Pedro Riparian NCA | Arizona | 144,741 | 128,365 | 50,093 | | |
| Mojave Trails | California | 175,558 | · | 163,283 | | |
| Sand to Snow | California | | | 0 | | |
| Berryessa Snow Mountain | California | 132,900 | 107,200 | 107,260 | | |
| Fort Ord | California | 499,112 | 144,187 | 467,848 | | |
| Piedras Blancas Historic Light Station ONA | California | 6,106 | 6,426 | 6,610 | | |
| Carrizo Plain | California | 54,253 | | 53,630 | | |
| Santa Rosa and San Jacinto Mountains | California | 230,173 | · | 136,090 | | |
| California Coastal | California | 15,000 | 15,000 | 43,420 | | |
| Headwaters Forest Reserve | California | 33,810 | | 38,565 | | |
| King Range NCA | California | 104,189 | 124,119 | 118,907 | | |
| Browns Canyon | Colorado | 85,946 | · | 115,059 | | |
| Dominguez-Escalante NCA | Colorado | 92,567 | 100,263 | 92,902 | | |
| McInnis Canyons NCA | Colorado | 283,063 | 286,905 | 244,298 | | |
| Canyons of the Ancients | Colorado | 68,497 | 72,193 | 89,579 | | |
| Gunnison Gorge NCA | Colorado | 182,575 | 202,301 | 206,036 | | |
| Jupiter Inlet Lighthouse ONA | Florida | 67,931 | 88,603 | 107,463 | | |
| Craters of the Moon | Idaho | 3,654 | 3,662 | 3,654 | | |
| Morley Nelson Snake River Birds of Prey NCA | Idaho | 197,235 | 218,136 | 151,665 | | |
| Pompeys Pillar | Montana | 32,000 | | 28,672 | | |
| Upper Missouri River Breaks | Montana | 24,699 | 25,025 | 46,342 | | |
| Organ Mountains-Desert Peaks | New Mexico | 190,934 | | 394,551 | | |
| Rio Grande del Norte | New Mexico | 122,431 | 207,784 | 176,954 | | |
| Prehistoric Trackways | New Mexico | 780 | 1,825 | 25,000 | | |
| Fort Stanton-Snowy River Cave NCA | New Mexico | 25,778 | 25,777 | 36,656 | | |
| Kasha-Katuwe Tent Rocks | New Mexico | 366,400 | 400,001 | 527,746 | | |
| El Malpais NCA | New Mexico | 173,043 | 176,437 | 188,890 | | |
| Basin and Range | Nevada | 340 | 0 | 120 | | |
| Sloan Canyon NCA | Nevada | 136,125 | 76,156 | 69,232 | | |
| Black Rock Desert-High Rock Canyon Emigrant Trails NCA | Nevada | 128,723 | | 170,825 | | |
| Red Rock Canyon NCA | Nevada | 1,753,250 | | 2,221,084 | | |
| Steens Mountain CMPA | Oregon | 248,146 | | 238,717 | | |
| Cascade-Siskiyou | Oregon | 121,058 | | 198,213 | | |
| Yaquina Head ONA | Oregon | 313,000 | | 423,643 | | |
| Red Cliffs NCA | Utah | 130,031 | 125,727 | 150,982 | | |
| Beaver Dam Wash NCA | Utah | 10,145 | | 9,715 | | |
| Grand Staircase-Escalante | Utah | 917,320 | | 926,236 | | |
| San Juan Islands | Washington | 100,970 | · | 105,372 | | |
| Total | All | 7,589,205 | | 8,671,083 | 0 | 0 |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|----------|----------------------|----------------------|----------------------|----------------------|----------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Sector | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | | 2020 | | 2022 |
| GDP | 0.936917 | 0.948357 | 0.967939 | 0.985319 | 1 | 1.019119 | 1.038604 | 1.058462 | 1.078699 | 1.099323 | 1.120342 | 1.141762 | 1.163592 | 1.185839 |
| 1 | 0.679859 | | - | | 1 | 1.006868 | 1.013783 | 1.020745 | 1.027756 | 1.034814 | | 1.049077 | 1.056281 | 1.063536 |
| 2 | 0.545203 | 0.678968 | 0.873676 | 0.993179 | 1 | 1.006868 | 1.013783 | 1.020745 | 1.027756 | 1.034814 | 1.041921 | 1.049077 | 1.056281 | 1.063536 |
| 3 4 | 1.146143 0.813015 | 1.086624 0.790722 | 1.160126 0.919495 | 0.993179 0.993179 | 1 | 1.006868 1.006868 | 1.013783 1.013783 | 1.020745 1.020745 | 1.027756 1.027756 | 1.034814 1.034814 | 1.041921 1.041921 | 1.049077 1.049077 | 1.056281 1.056281 | 1.063536 1.063536 |
| 5 | 0.813015 | | 0.919495 | 0.993179 | 1 | 1.006868 | 1.013783 | 1.020745 | 1.027756 | 1.034814 | | 1.049077 | 1.056281 | 1.063536 |
| 6 | 0.944042 | 0.880121 | 0.979802 | 0.993179 | 1 | 1.006868 | 1.013783 | 1.020745 | 1.027756 | 1.034814 | 1.041921 | 1.049077 | 1.056281 | 1.063536 |
| 7 | 0.81795 | | 1.022494 | 0.993179 | 1 | 1.006868 | 1.013783 | 1.020745 | 1.027756 | 1.034814 | 1.041921 | 1.049077 | 1.056281 | 1.063536 |
| 8 | 0.81795 | 0.794638 | 1.022494 | 0.993179 | 1 | 1.006868 | 1.013783 | 1.020745 | 1.027756 | 1.034814 | 1.041921 | 1.049077 | 1.056281 | 1.063536 |
| 9 | 0.81795 | | - | 0.993179 | 1 | 1.006868 | 1.013783 | 1.020745 | 1.027756 | 1.034814 | | 1.049077 | 1.056281 | 1.063536 |
| 10 | 0.81795 | 0.794638 | 1.022494 | 0.993179 | 1 | 1.006868 | 1.013783 | 1.020745 | 1.027756 | 1.034814 | 1.041921 | 1.049077 | 1.056281 | 1.063536 |
| 11 | 0.690489 | 0.72047 | 0.934846 | 1.006525 | 1 | 0.993517 | 0.987076 | 0.980677 | 0.974319 | 0.968002 0.968002 | 0.961727 | 0.955492 | 0.949297 | 0.943143 |
| 12 13 | 0.709911 0.867994 | 0.829055 0.863185 | 1.09251 0.930003 | 1.006525 1.006525 | 1 | 0.993517 0.993517 | 0.987076 0.987076 | 0.980677 0.980677 | 0.974319 0.974319 | 0.968002 | 0.961727 0.961727 | 0.955492 0.955492 | 0.949297 0.949297 | 0.943143 0.943143 |
| 14 | 0.685471 | 0.817788 | 1.053124 | 1.006525 | 1 | 0.993517 | 0.987076 | 0.980677 | 0.974319 | 0.968002 | 0.961727 | 0.955492 | 0.949297 | 0.943143 |
| 15 | 0.791577 | 0.89673 | 0.957729 | | 1 | 1.027366 | 1.055482 | 1.084367 | 1.114042 | 1.144529 | 1.175851 | 1.20803 | 1.24109 | 1.275054 |
| 16 | 0.81133 | 0.919107 | 0.981628 | 0.997651 | 1 | 1.002354 | 1.004714 | 1.007079 | 1.00945 | 1.011826 | 1.014208 | 1.016595 | 1.018988 | 1.021387 |
| 17 | 0.889626 | 0.942007 | 0.992476 | 0.99196 | 1 | 1.008105 | 1.016276 | 1.024514 | 1.032818 | 1.041189 | 1.049628 | 1.058136 | 1.066713 | 1.075359 |
| 18 | 0.889626 | 0.942007 | 0.992476 | 0.99196 | 1 | 1.008105 | 1.016276 | 1.024514 | 1.032818 | 1.041189 | | 1.058136 | 1.066713 | 1.075359 |
| 19 | 0.933228 | 0.950848 | 0.977015 | 0.979162 | 1 | 1.021282 | 1.043016 | 1.065213 | 1.087882 | 1.111034 | 1.134679 | 1.158827 | 1.183488 | |
| 20 | 0.741628 0.741628 | 0.94579 0.94579 | 1.073261 1.073261 | 0.951924 0.951924 | 1 | 1.050505 1.050505 | 1.10356 1.10356 | 1.159294 1.159294 | 1.217844 1.217844 | 1.279351 1.279351 | 1.343964 1.343964 | 1.41184 1.41184 | 1.483144 1.483144 | 1.55805 1.55805 |
| 22 | 0.741628 | | 0.965561 | 0.989762 | <u>1</u> | 1.030303 | 1.020794 | 1.031353 | 1.042021 | 1.0528 | 1.063689 | 1.074692 | 1.085808 | 1.097039 |
| 23 | 0.683272 | 0.81856 | 0.958987 | 0.992918 | 1 | 1.007133 | 1.014316 | 1.021551 | 1.028838 | 1.036176 | | 1.05101 | 1.058507 | 1.066057 |
| 24 | 0.683272 | 0.81856 | 0.958987 | 0.992918 | 1 | 1.007133 | 1.014316 | 1.021551 | 1.028838 | 1.036176 | 1.043567 | 1.05101 | 1.058507 | 1.066057 |
| 25 | 0.683272 | 0.81856 | 0.958987 | 0.992918 | 1 | 1.007133 | 1.014316 | 1.021551 | 1.028838 | 1.036176 | 1.043567 | 1.05101 | 1.058507 | 1.066057 |
| 26 | 0.684799 | 0.938106 | | 0.992918 | 1 | 1.007133 | 1.014316 | 1.021551 | 1.028838 | 1.036176 | | 1.05101 | 1.058507 | 1.066057 |
| 27 | 0.684799 | 0.938106 | | 0.992918 | 1 | 1.007133 | 1.014316 | 1.021551 | 1.028838 | 1.036176 | | 1.05101 | 1.058507 | 1.066057 |
| 28 | | | | 0.992918 | | | | | | | 1.043567 | | | 1.066057 |
| 29 30 | 0.683272 0.935589 | 0.81856 0.925382 | - | 0.992918 0.956471 | 1 | 1.007133 1.04551 | 1.014316 1.093091 | 1.021551 1.142837 | 1.028838 1.194847 | | | 1.05101 1.365515 | 1.058507 | 1.066057 1.492632 |
| 31 | 0.934784 | | | 0.956471 | 1 | 1.04551 | 1.093091 | 1.142837 | 1.194847 | 1.249224 | | | 1.42766 | |
| 32 | 0.934784 | | | 0.956471 | 1 | 1.04551 | 1.093091 | 1.142837 | 1.194847 | | | | 1.42766 | |
| 33 | 0.934784 | 0.871275 | 0.950881 | 0.956471 | 1 | 1.04551 | 1.093091 | 1.142837 | 1.194847 | 1.249224 | 1.306076 | 1.365515 | 1.42766 | 1.492632 |
| 34 | 0.934784 | 0.871275 | 0.950881 | 0.956471 | 1 | 1.04551 | 1.093091 | 1.142837 | 1.194847 | 1.249224 | 1.306076 | 1.365515 | 1.42766 | 1.492632 |
| 35 | 0.934784 | | | 0.956471 | 1 | 1.04551 | 1.093091 | 1.142837 | 1.194847 | 1.249224 | | 1.365515 | | 1.492632 |
| 36 | 0.934784 | | | 0.956471 | 1 | 1.04551 | 1.093091 | 1.142837 | 1.194847 | | | | 1.42766 | |
| 37 38 | 0.938541 0.888679 | | | 0.963159 0.963159 | | 1.03825 1.03825 | 1.077963 1.077963 | 1.119195 1.119195 | 1.162004 1.162004 | | | | 1.350253 1.350253 | 1.4019 1.4019 |
| 39 | 0.888679 | | | 0.963159 | | 1.03825 | 1.077963 | | 1.162004 | | 1.252597 | 1.300509 | | 1.4019 |
| 40 | 0.888679 | | 0.940862 | 0.963159 | 1 | 1.03825 | 1.077963 | | 1.162004 | 1.206451 | 1.252597 | 1.300509 | | 1.4019 |
| 41 | 0.974288 | 0.999527 | 1.024587 | 0.981611 | 1 | 1.018734 | 1.037818 | 1.057261 | 1.077067 | 1.097244 | 1.1178 | 1.13874 | 1.160073 | 1.181806 |
| 42 | 0.974288 | 0.999527 | 1.024587 | 0.981611 | 1 | 1.018734 | 1.037818 | 1.057261 | 1.077067 | 1.097244 | 1.1178 | 1.13874 | 1.160073 | 1.181806 |
| 43 | 0.974288 | | | 0.981611 | 1 | 1.018734 | | | 1.077067 | 1.097244 | | | 1.160073 | |
| 44 | 0.974288 | | 1.024587 | 0.981611 | 1 | 1.018734 | 1.037818 | | 1.077067 | 1.097244 | 1.1178 | 1.13874 | | |
| 45 46 | 0.974288 0.974288 | | 1.024587 1.024587 | 0.981611 0.981611 | 1 | 1.018734 1.018734 | | | 1.077067 1.077067 | 1.097244 1.097244 | 1.1178 1.1178 | 1.13874 1.13874 | 1.160073 | 1.181806 1.181806 |
| 46 | 0.974288 | | | 0.981611 | 1 | 1.018734 | | | 1.077067 | 1.097244 | | 1.13874 | | 1.181806 |
| 48 | 0.974288 | | | 0.981611 | 1 | 1.018734 | | | 1.077067 | 1.097244 | | 1.13874 | | 1.181806 |
| 49 | 0.974288 | | 1.024587 | 0.981611 | 1 | 1.018734 | | | 1.077067 | 1.097244 | 1.1178 | 1.13874 | | |
| 50 | 1.037713 | | 1.033271 | 0.963527 | 1 | 1.037854 | 1.077141 | 1.117915 | 1.160232 | 1.204151 | 1.249733 | 1.29704 | 1.346138 | 1.397095 |
| 51 | | | | | 1 | 1.015107 | 1.030441 | 1.046008 | | | | | 1.127439 | |
| 52 | 0.999162 | | | | 1 | 1.024505 | 1.04961 | 1.07533 | 1.101681 | 1.128677 | 1.156335 | | | |
| 53 54 | 0.958832 0.858056 | 0.934612 0.894334 | 0.952446 0.945209 | | 1 | 1.024505 1.024505 | 1.04961 1.04961 | 1.07533 1.07533 | | 1.128677 1.128677 | | | | 1.243442 1.243442 |
| 55 | 0.838036 | 0.894334 | | | 1 | 1.024505 | 1.04961 | 1.07533 | 1.101681 | 1.128677 | 1.156335 | | | 1.243442 |
| 56 | 0.874006 | | 0.928492 | 0.976081 | 1 | 1.024505 | 1.04961 | 1.07533 | | | | | | |
| 57 | 0.95492 | 0.92782 | 0.947061 | | 1 | 1.024505 | 1.04961 | 1.07533 | 1.101681 | | 1.156335 | | | |
| 58 | 0.930541 | 0.921887 | 0.947542 | 0.976081 | 1 | 1.024505 | 1.04961 | 1.07533 | | 1.128677 | 1.156335 | | 1.213701 | 1.243442 |
| 59 | | 0.960933 | | 0.976081 | 1 | | 1.04961 | | | | 1.156335 | | | |
| 60 | | 0.982061 | | 0.976081 | 1 | 1.024505 | 1.04961 | 1.07533 | | | | | | |
| 61 | | | | | 1 | 1.024505 | 1.04961 | 1.07533 | | | | 1.184671 | 1.213701 | |
| 62 | 0.903813 | | | | 1 | 1.024505 | 1.04961 | 1.07533 | | | | | | |
| 63 64 | 0.909879 0.903813 | | | | 1 | 1.024505 1.024505 | 1.04961 1.04961 | 1.07533 1.07533 | | 1.128677 1.128677 | 1.156335 1.156335 | | 1.213701 1.213701 | |
| 65 | 0.903813 | | | | 1 | 1.024505 | 1.04961 | | | 1.041886 | | | | |
| 66 | | | | | 1 | 1.00824 | 1.016549 | | 1.033371 | | | | | |
| | | 303 | | | | | | | | | | | | |

| | | | | | 1 | | | | | | 1 | | | |
|-----|----------|----------|----------|----------|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 67 | 0.823904 | 0.800382 | 0.95909 | 0.986428 | 1 | 1.013759 | 1.027708 | 1.041848 | 1.056183 | 1.070715 | 1.085447 | 1.100382 | 1.115523 | 1.130871 |
| 68 | 0.823904 | 0.800382 | 0.95909 | 0.986428 | 1 | 1.013759 | 1.027708 | 1.041848 | 1.056183 | 1.070715 | 1.085447 | 1.100382 | 1.115523 | 1.130871 |
| 69 | 0.823904 | 0.800382 | 0.95909 | 0.986428 | 1 | 1.013759 | 1.027708 | 1.041848 | 1.056183 | 1.070715 | 1.085447 | 1.100382 | 1.115523 | 1.130871 |
| 70 | 0.827818 | 0.792453 | 0.972735 | 0.986428 | 1 | 1.013759 | 1.027708 | 1.041848 | 1.056183 | 1.070715 | 1.085447 | 1.100382 | 1.115523 | 1.130871 |
| 71 | 0.744558 | 0.735854 | 0.904392 | 0.986428 | 1 | 1.013759 | 1.027708 | 1.041848 | 1.056183 | 1.070715 | 1.085447 | 1.100382 | 1.115523 | 1.130871 |
| 72 | 0.754098 | 0.769813 | 0.987808 | 0.986428 | 1 | 1.013759 | 1.027708 | 1.041848 | 1.056183 | 1.070715 | 1.085447 | 1.100382 | 1.115523 | 1.130871 |
| 73 | 0.912058 | 0.923003 | 0.955463 | 0.986428 | 1 | 1.013759 | 1.027708 | 1.041848 | 1.056183 | 1.070715 | 1.085447 | 1.100382 | 1.115523 | 1.130871 |
| 74 | 0.859334 | 0.909279 | 0.979151 | 0.988071 | 1 | 1.012073 | 1.024291 | 1.036658 | 1.049173 | 1.061839 | 1.074659 | 1.087633 | 1.100764 | 1.114053 |
| 75 | 0.859334 | 0.909279 | 0.979151 | 0.988071 | 1 | 1.012073 | 1.024291 | 1.036658 | 1.049173 | 1.061839 | 1.074659 | 1.087633 | 1.100764 | 1.114053 |
| 76 | 0.859334 | 0.909279 | 0.979151 | 0.988071 | 1 | 1.012073 | 1.024291 | 1.036658 | 1.049173 | 1.061839 | 1.074659 | 1.087633 | 1.100764 | 1.114053 |
| 77 | 0.859334 | 0.909279 | 0.979151 | 0.988071 | 1 | 1.012073 | 1.024291 | 1.036658 | 1.049173 | 1.061839 | 1.074659 | 1.087633 | 1.100764 | 1.114053 |
| 78 | 0.859334 | 0.909279 | 0.979151 | 0.988071 | 1 | 1.012073 | 1.024291 | 1.036658 | 1.049173 | 1.061839 | 1.074659 | 1.087633 | 1.100764 | 1.114053 |
| 79 | 0.911479 | 0.923082 | 0.954301 | 0.984252 | 1 | 1.016 | 1.032256 | 1.048773 | 1.065553 | 1.082602 | 1.099924 | 1.117523 | 1.135404 | 1.153571 |
| 80 | 0.911479 | 0.923082 | 0.954301 | 0.984252 | 1 | 1.016 | 1.032256 | 1.048773 | 1.065553 | 1.082602 | 1.099924 | 1.117523 | 1.135404 | 1.153571 |
| 81 | 0.927647 | 0.916162 | 0.942498 | 0.984252 | 1 | 1.016 | 1.032256 | 1.048773 | 1.065553 | 1.082602 | 1.099924 | 1.117523 | 1.135404 | 1.153571 |
| 82 | 0.927647 | 0.916162 | 0.942498 | 0.984252 | 1 | 1.016 | 1.032256 | 1.048773 | 1.065553 | 1.082602 | 1.099924 | 1.117523 | 1.135404 | 1.153571 |
| 83 | 0.927647 | 0.916162 | 0.942498 | 0.984252 | 1 | 1.016 | 1.032256 | 1.048773 | 1.065553 | 1.082602 | 1.099924 | 1.117523 | 1.135404 | 1.153571 |
| 84 | 0.825741 | 0.915822 | 1.006281 | 0.986323 | 1 | 1.013866 | 1.027925 | 1.042179 | 1.05663 | 1.071281 | 1.086136 | 1.101197 | 1.116466 | 1.131948 |
| 85 | 0.825741 | 0.915822 | 1.006281 | 0.986323 | 1 | 1.013866 | 1.027925 | 1.042179 | 1.05663 | 1.071281 | 1.086136 | 1.101197 | 1.116466 | 1.131948 |
| 86 | 0.787811 | 0.869656 | 0.995556 | 0.986323 | 1 | 1.013866 | 1.027925 | 1.042179 | 1.05663 | 1.071281 | 1.086136 | 1.101197 | 1.116466 | 1.131948 |
| 87 | 0.780122 | 0.87532 | 0.986776 | 0.986323 | 1 | 1.013866 | 1.027925 | 1.042179 | 1.05663 | 1.071281 | 1.086136 | 1.101197 | 1.116466 | 1.131948 |
| 88 | 0.87303 | 0.881263 | 0.950835 | 0.986323 | 1 | 1.013866 | 1.027925 | 1.042179 | 1.05663 | 1.071281 | 1.086136 | 1.101197 | 1.116466 | 1.131948 |
| 89 | 0.722321 | 0.817321 | 0.946284 | 0.988142 | 1 | 1.012 | 1.024144 | 1.036433 | 1.04887 | 1.061456 | 1.074194 | 1.087084 | 1.100129 | 1.11333 |
| 90 | 0.722321 | 0.817321 | 0.946284 | 0.988142 | 1 | 1.012 | 1.024144 | 1.036433 | 1.04887 | 1.061456 | 1.074194 | 1.087084 | 1.100129 | 1.11333 |
| 91 | 0.722321 | 0.817321 | 0.946284 | 0.988142 | 1 | 1.012 | 1.024144 | 1.036433 | 1.04887 | 1.061456 | 1.074194 | 1.087084 | 1.100129 | 1.11333 |
| 92 | 0.885623 | 0.899279 | 0.889998 | 0.988142 | 1 | 1.012 | 1.024144 | 1.036433 | 1.04887 | 1.061456 | 1.074194 | 1.087084 | 1.100129 | 1.11333 |
| 93 | 0.872355 | 0.906516 | 0.98727 | 0.980893 | 1 | 1.019479 | 1.039338 | 1.059583 | 1.080223 | 1.101265 | 1.122716 | 1.144586 | 1.166881 | 1.189611 |
| 94 | 0.91301 | 0.926185 | 0.955474 | 0.980134 | 1 | 1.020268 | 1.040948 | 1.062046 | 1.083572 | 1.105534 | 1.127941 | 1.150803 | 1.174128 | 1.197925 |
| 95 | 0.91301 | 0.926185 | 0.955474 | 0.980134 | 1 | 1.020268 | 1.040948 | 1.062046 | 1.083572 | 1.105534 | 1.127941 | 1.150803 | 1.174128 | 1.197925 |
| 96 | 0.914373 | | | | | 1.020268 | 1.040948 | 1.062046 | | 1.105534 | | 1.150803 | 1.174128 | |
| 97 | 0.914373 | 0.912745 | 0.951286 | 0.980134 | 1 | 1.020268 | 1.040948 | 1.062046 | 1.083572 | 1.105534 | 1.127941 | 1.150803 | 1.174128 | 1.197925 |
| 98 | 0.914373 | 0.912745 | 0.951286 | 0.980134 | 1 | 1.020268 | 1.040948 | 1.062046 | 1.083572 | 1.105534 | 1.127941 | 1.150803 | 1.174128 | 1.197925 |
| 99 | 0.865811 | 0.904123 | 0.939388 | 0.993934 | 1 | 1.006103 | 1.012243 | 1.018421 | 1.024636 | 1.03089 | 1.037181 | 1.043511 | 1.04988 | 1.056287 |
| 100 | 0.865811 | 0.904123 | 0.939388 | 0.993934 | 1 | 1.006103 | 1.012243 | 1.018421 | 1.024636 | 1.03089 | 1.037181 | 1.043511 | 1.04988 | 1.056287 |
| 101 | 0.84547 | 0.885824 | 1.022925 | 0.993934 | 1 | 1.006103 | 1.012243 | 1.018421 | 1.024636 | 1.03089 | 1.037181 | 1.043511 | 1.04988 | 1.056287 |
| 102 | 0.978763 | 0.958787 | 0.971961 | 0.993934 | 1 | 1.006103 | 1.012243 | 1.018421 | 1.024636 | 1.03089 | 1.037181 | 1.043511 | 1.04988 | 1.056287 |
| 103 | 0.919381 | 0.917809 | 0.953159 | 0.993934 | 1 | 1.006103 | 1.012243 | 1.018421 | 1.024636 | 1.03089 | 1.037181 | 1.043511 | 1.04988 | 1.056287 |
| 104 | 0.919381 | 0.917809 | 0.953159 | | | 1.006103 | 1.012243 | 1.018421 | 1.024636 | 1.03089 | 1.037181 | 1.043511 | 1.04988 | 1.056287 |
| 105 | 0.903494 | 0.920805 | 0.966197 | 0.993934 | 1 | 1.006103 | 1.012243 | 1.018421 | 1.024636 | 1.03089 | 1.037181 | 1.043511 | 1.04988 | 1.056287 |
| 106 | | | | | + | 1.018115 | | | 1.074455 | | | | 1.154453 | |
| 107 | 0.831716 | 0.831783 | | | + | 1.018115 | 1.036559 | 1.055337 | 1.074455 | | 1.113736 | | | |
| 108 | 0.880943 | 0.910322 | 0.939287 | 0.982207 | + | 1.018115 | | | 1.074455 | | | | | |
| 109 | 0.970953 | 0.968526 | 0.972167 | 0.982207 | 1 | 1.018115 | 1.036559 | 1.055337 | 1.074455 | | | | 1.154453 | |
| 110 | 0.948195 | 0.97629 | 0.973417 | 0.982207 | 1 | 1.018115 | 1.036559 | 1.055337 | 1.074455 | 1.093919 | 1.113736 | 1.133912 | 1.154453 | 1.175367 |
| 111 | 0.846891 | | | | 1 | 1.013571 | 1.027326 | 1.041268 | 1.055399 | 1.069722 | 1.084239 | | | 1.128984 |
| 112 | 0.847516 | | | | + | 1.003026 | 1.00606 | | | 1.01522 | | | | |
| 113 | 0.887849 | 0.913393 | | 0.996984 | + | 1.003026 | 1.00606 | | 1.012157 | 1.01522 | 1.018291 | 1.021372 | 1.024463 | |
| 114 | 0.887849 | 0.913393 | 0.989197 | 0.996984 | + | 1.003026 | 1.00606 | | 1.012157 | 1.01522 | 1.018291 | 1.021372 | 1.024463 | |
| 115 | | | | 0.996984 | + | 1.003026 | 1.00606 | | | 1.01522 | | 1.021372 | | |
| 116 | | | | 0.996984 | | 1.003026 | 1.00606 | | | 1.01522 | | 1.021372 | 1.024463 | |
| 117 | 0.90611 | 0.920136 | | 0.996984 | | 1.003026 | 1.00606 | | | 1.01522 | | 1.021372 | | - |
| 118 | 0.90611 | 0.920136 | | 0.996984 | | 1.003026 | 1.00606 | | 1.012157 | 1.01522 | | 1.021372 | 1.024463 | |
| 119 | 0.92977 | 0.93799 | | 0.996984 | + | 1.003026 | 1.00606 | | 1.012157 | 1.01522 | 1.018291 | 1.021372 | 1.024463 | - |
| 120 | | 0.862942 | 0.961949 | | | 1.003026 | | 1.009104 | | 1.01522 | | 1.021372 | | |
| 121 | 0.934967 | 0.943588 | | 0.996984 | + | 1.003026 | 1.00606 | | 1.012157 | 1.01522 | 1.018291 | 1.021372 | 1.024463 | |
| 122 | 0.934967 | 0.943588 | | 0.996984 | + | 1.003026 | 1.00606 | | 1.012157 | 1.01522 | 1.018291 | 1.021372 | 1.024463 | |
| 123 | 0.934967 | 0.943588 | | 0.996984 | | 1.003026 | 1.00606 | | | 1.01522 | | 1.021372 | | |
| 124 | | 0.950097 | 0.971844 | | | 1.012069 | 1.024283 | | 1.049155 | 1.061817 | | 1.087601 | 1.100727 | |
| 125 | 0.947567 | 0.950097 | 0.971844 | 0.988075 | | 1.012069 | 1.024283 | | 1.049155 | | | 1.087601 | | |
| 126 | 0.947567 | 0.950097 | 0.971844 | 0.988075 | | 1.012069 | 1.024283 | | 1.049155 | | | 1.087601 | 1.100727 | - |
| 127 | 0.947567 | 0.950097 | 0.971844 | 0.988075 | | 1.012069 | 1.024283 | 1.036644 | 1.049155 | | 1.074632 | 1.087601 | 1.100727 | |
| 128 | | 0.950097 | | | | | | 1.036644 | | | 1.074632 | | | |
| 129 | | 0.950097 | | | | | 1.024283 | | | 1.061817 | | | | 1.114011 |
| 130 | | | | | | 1.012069 | | | 1.049155 | | | | | 1.114011 |
| 131 | | | | | | 1.016345 | | 1.04984 | 1.067 | 1.08444 | | 1.120179 | | |
| 132 | | | | | | 1.016345 | | 1.04984 | 1.067 | 1.08444 | | | | |
| | 0.919799 | | | | | | | 1.04984 | 1.067 | 1.08444 | | | 1.138489 | |
| 134 | | 0.98315 | | | | 1.014758 | | 1.04493 | 1.060352 | 1.076 | | 1.107994 | | |
| 135 | 0.883778 | 0.98315 | 0.981957 | 0.985457 | 1 | 1.014758 | 1.029734 | 1.04493 | 1.060352 | 1.076 | 1.09188 | 1.107994 | 1.124345 | 1.140938 |

| 136 | 0.855508 | 0.914264 | 0.892936 | 0.980138 | 1 | 1.020264 | 1.040939 | 1.062033 | 1.083554 | 1.105511 | 1.127914 | 1.15077 | 1.174089 | 1.197881 |
|------------|----------------------|----------------------|----------------------|----------------------|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------|
| 137 | 0.855508 | 0.914264 | 0.892936 | | | 1.020264 | 1.040939 | 1.062033 | 1.083554 | 1.105511 | 1.127914 | 1.15077 | 1.174089 | |
| 138 | 0.855508 | | 0.892936 | | | 1.020264 | 1.040939 | 1.062033 | | 1.105511 | 1.127914 | 1.15077 | 1.174089 | |
| 139 | 0.924398 | | 0.966357 | 0.980084 | | 1.02032 | 1.041054 | 1.062209 | 1.083793 | 1.105816 | 1.128287 | 1.151214 | 1.174607 | 1.198476 |
| 140 | 0.924398 | | 0.966357 | 0.980084 | | 1.02032 | 1.041054 | 1.062209 | 1.083793 | | 1.128287 | 1.151214 | | + |
| 141 | 0.924398 | 0.961273 | 0.966357 | 0.980084 | 1 | 1.02032 | 1.041054 | 1.062209 | 1.083793 | 1.105816 | 1.128287 | 1.151214 | 1.174607 | 1.198476 |
| 142 | 0.939201 | 0.942836 | 0.9559 | 0.980084 | 1 | 1.02032 | 1.041054 | 1.062209 | 1.083793 | 1.105816 | 1.128287 | 1.151214 | 1.174607 | 1.198476 |
| 143 | 0.939201 | 0.942836 | 0.9559 | 0.980084 | 1 | 1.02032 | 1.041054 | 1.062209 | 1.083793 | 1.105816 | 1.128287 | 1.151214 | 1.174607 | 1.198476 |
| 144 | 0.939201 | 0.942836 | 0.9559 | 0.980084 | 1 | 1.02032 | 1.041054 | 1.062209 | 1.083793 | 1.105816 | 1.128287 | 1.151214 | 1.174607 | 1.198476 |
| 145 | 0.939201 | 0.942836 | 0.9559 | 0.980084 | 1 | 1.02032 | 1.041054 | 1.062209 | 1.083793 | 1.105816 | 1.128287 | 1.151214 | 1.174607 | 1.198476 |
| 146 | 0.805575 | 0.934516 | 0.997979 | 0.980812 | 1 | 1.019563 | 1.039509 | 1.059845 | 1.080579 | 1.101719 | 1.123272 | 1.145247 | 1.167651 | 1.190494 |
| 147 | 0.935845 | 0.949443 | 0.977715 | | + | 1.019563 | 1.039509 | 1.059845 | 1.080579 | | | 1.145247 | 1.167651 | |
| 148 | | | | | + | 1.019563 | 1.039509 | 1.059845 | 1.080579 | | | 1.145247 | | + |
| 149 | 0.896548 | 0.939779 | 0.977058 | | + | 1.019692 | 1.039771 | 1.060246 | | | 1.124122 | 1.146258 | | + |
| 150 | 0.904728 | 0.926224 | 0.972094 | 0.980689 | + | 1.019692 | 1.039771 | 1.060246 | 1.081124 | 1.102413 | 1.124122 | 1.146258 | 1.168829 | + |
| 151 | | | 0.963504 | | | 1.019692 | 1.039771 | 1.060246 | | | | 1.146258 | | |
| 152 | 0.954571 0.911692 | 0.95586 0.933016 | 0.96827 0.974489 | 0.980689 | | 1.019692 1.019692 | 1.039771 1.039771 | 1.060246 1.060246 | 1.081124 1.081124 | | 1.124122 1.124122 | 1.146258 1.146258 | | |
| 153 154 | 0.911692 | 0.953016 | 0.974489 | | | 1.019692 | 1.039771 | 1.056559 | 1.076114 | | 1.116316 | 1.136978 | | 1.179454 |
| 155 | 0.997499 | 0.994496 | 0.984811 | 0.981828 | + | 1.018508 | 1.037359 | 1.056559 | 1.076114 | 1.096031 | 1.116316 | 1.136978 | 1.158021 | 1.179454 |
| 156 | | | | | + | 0.997199 | 0.994405 | 0.99162 | 0.988842 | 0.986072 | 0.983309 | 0.980555 | 0.977808 | + |
| 157 | 0.85637 | 0.890128 | 0.941296 | | + | 0.997199 | 0.994405 | 0.99162 | 0.988842 | 0.986072 | 0.983309 | 0.980555 | 0.977808 | + |
| 158 | 0.946261 | 0.952184 | 1.000462 | | + | 0.997199 | 0.994405 | 0.99162 | 0.988842 | 0.986072 | 0.983309 | 0.980555 | 0.977808 | + |
| 159 | 0.732357 | 0.800591 | 0.965803 | | + | 0.997199 | 0.994405 | 0.99162 | 0.988842 | 0.986072 | 0.983309 | 0.980555 | 0.977808 | 0.975069 |
| 160 | 0.732357 | 0.800591 | 0.965803 | 1.002809 | 1 | 0.997199 | 0.994405 | 0.99162 | 0.988842 | 0.986072 | 0.983309 | 0.980555 | 0.977808 | 0.975069 |
| 161 | 0.625893 | 0.971385 | 1.240707 | 0.977363 | 1 | 1.023162 | 1.04686 | 1.071107 | 1.095916 | 1.121299 | 1.147271 | 1.173844 | 1.201032 | 1.22885 |
| 162 | 0.906073 | 0.915922 | 0.963681 | 0.977363 | 1 | 1.023162 | 1.04686 | 1.071107 | 1.095916 | 1.121299 | 1.147271 | 1.173844 | 1.201032 | 1.22885 |
| 163 | 0.718427 | 0.742193 | 0.877278 | 0.977363 | 1 | 1.023162 | 1.04686 | 1.071107 | 1.095916 | 1.121299 | 1.147271 | 1.173844 | 1.201032 | 1.22885 |
| 164 | 0.882399 | 0.854868 | 0.957006 | 0.977363 | 1 | 1.023162 | 1.04686 | 1.071107 | 1.095916 | 1.121299 | 1.147271 | 1.173844 | 1.201032 | 1.22885 |
| 165 | | 0.83348 | | | | 1.023162 | 1.04686 | | 1.095916 | | 1.147271 | 1.173844 | 1.201032 | 1.22885 |
| 166 | | | 0.966448 | | | 1.027024 | | | | | | | | 1.271238 |
| 167 | 0.74842 | 0.823861 | 0.965312 | 0.973687 | | 1.027024 | 1.054779 | | | 1.142625 | | | 1.237788 | |
| 168 | 0.74842 | 0.823861 | 0.965312 | 0.973687 | | 1.027024 | 1.054779 | 1.083284 | 1.112559 | | 1.173504 | 1.205217 | 1.237788 | |
| 169 | | | 0.979671 | 0.981676 | | 1.018666 | | 1.05705 | 1.076782 | 1.096881 | 1.117356 | | | |
| 170 | 0.655075 | | 0.979671 | 0.981676 | + | 1.018666 | 1.037681 | 1.05705 | 1.076782 | 1.096881 | 1.117356 | 1.138212 | 1.159458 | + |
| 171 172 | 0.655075 1.001332 | 0.728037 0.935985 | 0.979671 0.937277 | 0.981676 0.981676 | | 1.018666 1.018666 | 1.037681 1.037681 | 1.05705 1.05705 | 1.076782 1.076782 | 1.096881 1.096881 | 1.117356 1.117356 | 1.138212 1.138212 | 1.159458 1.159458 | |
| 173 | 0.912986 | | 0.959502 | 0.971691 | | 1.029134 | 1.057081 | 1.03703 | 1.121729 | 1.154409 | 1.117330 | 1.222654 | 1.258275 | |
| 174 | | 0.88679 | 0.92412 | 0.971691 | | 1.029134 | 1.059117 | 1.089973 | 1.121729 | | 1.188042 | 1.222654 | | + |
| 175 | 0.901918 | | | | | 1.029134 | 1.059117 | 1.089973 | 1.121729 | | 1.188042 | 1.222654 | 1.258275 | |
| 176 | | | 0.949843 | | + | 1.029134 | 1.059117 | 1.089973 | 1.121729 | | 1.188042 | 1.222654 | 1.258275 | |
| 177 | 0.858933 | | 0.904276 | | | 1.022048 | | 1.067612 | 1.09115 | | 1.139795 | 1.164925 | | |
| 178 | 0.89516 | 0.9066 | 0.954438 | 0.978428 | 1 | 1.022048 | 1.044581 | 1.067612 | 1.09115 | 1.115207 | 1.139795 | 1.164925 | 1.190609 | 1.216859 |
| 179 | 0.898766 | 0.895908 | 0.939157 | 0.979898 | 1 | 1.020515 | 1.04145 | 1.062815 | 1.084618 | 1.106869 | 1.129576 | 1.152749 | 1.176397 | 1.20053 |
| 180 | 0.898766 | 0.895908 | 0.939157 | 0.979898 | 1 | 1.020515 | 1.04145 | 1.062815 | 1.084618 | 1.106869 | 1.129576 | 1.152749 | 1.176397 | 1.20053 |
| 181 | 0.898766 | | | 0.979898 | | 1.020515 | 1.04145 | 1.062815 | 1.084618 | | | 1.152749 | | 1.20053 |
| 182 | 0.93977 | | | 0.979898 | | 1.020515 | 1.04145 | 1.062815 | | | | | | 1.20053 |
| 183 | 0.932027 | 0.932587 | 0.963698 | | 1 | 1.007191 | 1.014433 | 1.021727 | 1.029074 | 1.036473 | 1.043926 | 1.051432 | 1.058993 | + |
| 184 | 0.904278 | 0.910002 | 0.967957 | 0.992861 | 1 | 1.007191 | 1.014433 | 1.021727 | 1.029074 | 1.036473 | 1.043926 | 1.051432 | 1.058993 | 1.066607 |
| 185 | | | 0.967957 | | + | 1.007191 | 1.014433 | 1.021727 | 1.029074 | 1.036473 | 1.043926 | 1.051432 | | |
| 186 | | | 0.967957 0.967957 | 0.992861 0.992861 | | 1.007191 | 1.014433 | 1.021727 | 1.029074 | 1.036473 | 1.043926 1.043926 | 1.051432 | 1.058993 | |
| 187 188 | 0.904278 0.855051 | 0.910002 0.903865 | 0.967957 | 0.992861 | + | 1.007191 1.016251 | 1.014433 1.032765 | 1.021727 1.049548 | 1.029074 1.066604 | 1.036473 1.083937 | 1.101552 | 1.051432 1.119453 | | + |
| 189 | 0.857293 | 0.903863 | 0.966033 | 0.984009 | + | 1.016251 | 1.032765 | 1.049548 | 1.066604 | 1.083937 | 1.101552 | 1.119453 | 1.137645 | |
| 190 | | | 0.949117 | 0.984009 | | 1.016251 | 1.032765 | 1.049548 | | 1.083937 | 1.101552 | 1.119453 | | + |
| 191 | 0.929591 | 0.937167 | 0.964999 | | | 1.016251 | 1.032765 | 1.049548 | 1.066604 | 1.083937 | 1.101552 | 1.119453 | | |
| 192 | 0.904869 | | 0.94862 | 0.984009 | | 1.016251 | 1.032765 | 1.049548 | 1.066604 | 1.083937 | 1.101552 | 1.119453 | | |
| 193 | 0.947447 | 0.934922 | 0.947182 | | + | 1.016251 | 1.032765 | 1.049548 | 1.066604 | 1.083937 | 1.101552 | 1.119453 | | |
| 194 | 0.87789 | 0.883965 | 0.966961 | 0.984009 | 1 | 1.016251 | 1.032765 | 1.049548 | 1.066604 | 1.083937 | 1.101552 | 1.119453 | 1.137645 | 1.156132 |
| 195 | 0.905619 | 0.924021 | 0.966332 | 0.984009 | 1 | 1.016251 | 1.032765 | 1.049548 | 1.066604 | 1.083937 | 1.101552 | 1.119453 | 1.137645 | 1.156132 |
| 196 | 0.816152 | 0.857343 | 0.956195 | 0.988515 | 1 | 1.011619 | 1.023372 | 1.035262 | 1.04729 | 1.059458 | 1.071768 | 1.08422 | 1.096817 | 1.10956 |
| 197 | 0.806938 | 0.829831 | 0.919836 | 0.988515 | | 1.011619 | | 1.035262 | 1.04729 | | 1.071768 | 1.08422 | 1.096817 | |
| 198 | | | 0.944792 | | | 1.011619 | | | | | | | | - |
| 199 | | | | | | 1.021702 | | | | 1.113321 | 1.137482 | | | |
| 200 | | | | | | 1.021702 | | | | | 1.137482 | | 1.187388 | |
| 201 | | | | | | 1.013802 | 1.027794 | 1.04198 | | | 1.085722 | 1.100707 | | |
| 202 | | | | | | 1.013802 | 1.027794 | 1.04198 | | 1.070941 | 1.085722 | 1.100707 | 1.115899 | |
| 203 | | 0.967062 | | | | | 1.027794 | 1.04198 | | | 1.085722 | 1.100707 | | |
| 204 | U.956616 | 0.967062 | 0.971817 | 0.986386 | 1 | 1.013802 | 1.027794 | 1.04198 | 1.056361 | 1.070941 | 1.085722 | 1.100707 | 1.115899 | 1.1313 |

| 205 | 1 06194 | 1 002664 | 0.060316 | 0.076755 | 1 1 | 1 022700 | 1 049162 | 1 072100 | 1 000646 | 1 124702 | 1 15156 | 1 170065 | 1 207022 | 1 225740 |
|------------|----------------------|----------------------|----------|----------|----------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------|--------------------|
| 205 | 1.06184 | 1.002664 | 0.969216 | | | 1.023798 | 1.048163 | | | | | | | + |
| 206 | 0.984017 | 0.960322 | 0.955461 | 0.976755 | | 1.023798 | 1.048163 | 1.073108 | 1.098646 | | 1.15156 | 1.178965 | 1.207023 | + |
| 207 | 0.973542 | 0.957342 | 0.964693 | | | 1.023798 | | | | | 1.15156 | | | |
| 208 | 0.973542 | 0.957342 | 0.964693 | | + | 1.023798 | 1.048163 | 1.073108 | 1.098646 | 1.124792 | 1.15156 | 1.178965 | 1.207023 | |
| 209 | 0.949467 | 0.954243 | 0.963747 | 0.976755 | + | 1.023798 | 1.048163 | | 1.098646 | | 1.15156 | | | |
| 210 | 0.90543 | 0.89394 | 0.90064 | | 1 | 1.017437 | 1.035178 | | 1.071593 | | 1.10929 | 1.128633 | | - |
| 211 | 0.90543 | 0.89394 | 0.90064 | | 1 | 1.017437 | 1.035178 | | 1.071593 | | 1.10929 | 1.128633 | 1.148312 | - |
| 212 | 0.930027 | 0.927283 | | | 1 | 1.017437 | 1.035178 | | 1.071593 | | 1.10929 | 1.128633 | | - |
| 213 | 0.982498 | 0.979217 | 0.979826 | | 1 | 1.017437 | 1.035178 | 1.053228 | 1.071593 | | 1.10929 | 1.128633 | | |
| 214 | 0.871262 | 0.899386 | 0.93949 | | 1 | 1.017437 | 1.035178 | 1.053228 | 1.071593 | 1.090279 | 1.10929 | 1.128633 | | - |
| 215 | 0.800989 | 0.817906 | 0.923477 | 0.982862 | 1 | 1.017437 | 1.035178 | 1.053228 | 1.071593 | 1.090279 | 1.10929 | 1.128633 | 1.148312 | 1.168336 |
| 216 | 0.946042 | 0.944405 | 0.961008 | 0.982862 | 1 | 1.017437 | 1.035178 | 1.053228 | 1.071593 | 1.090279 | 1.10929 | 1.128633 | 1.148312 | 1.168336 |
| 217 | 0.761675 | 0.905076 | 1.019876 | 0.980451 | 1 | 1.019938 | 1.040274 | 1.061016 | 1.082171 | 1.103747 | 1.125754 | 1.1482 | 1.171093 | 1.194443 |
| 218 | 0.789365 | 0.867828 | 0.970232 | 0.97676 | 1 | 1.023792 | 1.048151 | 1.073089 | 1.098621 | 1.12476 | 1.15152 | 1.178918 | 1.206967 | 1.235684 |
| 219 | 0.789365 | 0.867828 | 0.970232 | 0.97676 | 1 | 1.023792 | 1.048151 | 1.073089 | 1.098621 | 1.12476 | 1.15152 | 1.178918 | 1.206967 | 1.235684 |
| 220 | 0.789365 | 0.867828 | 0.970232 | 0.97676 | 1 | 1.023792 | 1.048151 | 1.073089 | 1.098621 | 1.12476 | 1.15152 | 1.178918 | 1.206967 | 1.235684 |
| 221 | 0.958211 | 1.014678 | 1.109599 | 0.980451 | 1 | 1.019939 | 1.040275 | 1.061017 | 1.082173 | 1.10375 | 1.125758 | 1.148204 | 1.171098 | 1.194448 |
| 222 | 0.966742 | 1.039751 | 1.134724 | 0.980451 | 1 | 1.019939 | 1.040275 | 1.061017 | 1.082173 | 1.10375 | 1.125758 | 1.148204 | 1.171098 | 1.194448 |
| 223 | 0.840118 | 0.949837 | 1.042183 | 0.980451 | 1 | 1.019939 | 1.040275 | 1.061017 | 1.082173 | 1.10375 | 1.125758 | 1.148204 | 1.171098 | 1.194448 |
| 224 | 0.840118 | 0.949837 | 1.042183 | 0.980451 | 1 | 1.019939 | 1.040275 | 1.061017 | 1.082173 | 1.10375 | 1.125758 | 1.148204 | 1.171098 | 1.194448 |
| 225 | 0.742803 | 0.935785 | 1.08507 | 0.98876 | 1 | 1.011368 | 1.022864 | 1.034492 | 1.046251 | 1.058145 | 1.070173 | 1.082338 | 1.094642 | 1.107085 |
| 226 | 0.793802 | 0.970773 | 1.089295 | 0.98876 | 1 | 1.011368 | 1.022864 | 1.034492 | 1.046251 | 1.058145 | 1.070173 | 1.082338 | 1.094642 | 1.107085 |
| 227 | 0.843105 | 0.931159 | 1.052238 | 0.98876 | 1 | 1.011368 | 1.022864 | 1.034492 | 1.046251 | 1.058145 | 1.070173 | 1.082338 | 1.094642 | 1.107085 |
| 228 | 0.843105 | 0.931159 | 1.052238 | 0.98876 | 1 | 1.011368 | 1.022864 | 1.034492 | 1.046251 | 1.058145 | 1.070173 | 1.082338 | 1.094642 | 1.107085 |
| 229 | 0.842775 | 0.888107 | 0.946545 | 0.983585 | 1 | 1.016689 | 1.033656 | 1.050906 | 1.068444 | 1.086275 | 1.104404 | 1.122835 | 1.141573 | 1.160625 |
| 230 | 0.888787 | 0.947412 | 0.994988 | 0.983585 | 1 | 1.016689 | 1.033656 | 1.050906 | 1.068444 | 1.086275 | 1.104404 | 1.122835 | 1.141573 | 1.160625 |
| 231 | 0.945459 | 0.946206 | 0.981046 | 0.98255 | 1 | 1.01776 | 1.035836 | 1.054233 | 1.072956 | 1.092012 | 1.111406 | 1.131145 | 1.151234 | 1.171681 |
| 232 | 0.945459 | 0.946206 | 0.981046 | 0.98255 | 1 | 1.01776 | 1.035836 | 1.054233 | 1.072956 | 1.092012 | 1.111406 | 1.131145 | 1.151234 | 1.171681 |
| 233 | 0.928274 | 0.983534 | 1.00766 | 0.98255 | 1 | 1.01776 | 1.035836 | 1.054233 | 1.072956 | 1.092012 | 1.111406 | 1.131145 | 1.151234 | 1.171681 |
| 234 | 0.928352 | 0.934656 | 0.985808 | 0.98255 | 1 | 1.01776 | 1.035836 | 1.054233 | 1.072956 | 1.092012 | 1.111406 | 1.131145 | 1.151234 | 1.171681 |
| 235 | 0.945743 | 0.955399 | 0.966739 | 0.987072 | 1 | 1.013097 | 1.026365 | 1.039808 | 1.053426 | 1.067223 | 1.0812 | 1.095361 | 1.109707 | 1.12424 |
| 236 | 0.945743 | | | | | 1.013097 | 1.026365 | 1.039808 | 1.053426 | | | 1.095361 | | 1.12424 |
| 237 | 0.930954 | 0.906563 | | | | 1.021032 | 1.042507 | 1.064433 | 1.08682 | 1.109678 | | 1.156847 | 1.181177 | 1.20602 |
| 238 | | | | | + | 1.021032 | 1.042507 | 1.064433 | 1.08682 | 1.109678 | | 1.156847 | | 1.20602 |
| 239 | 0.930954 | 0.906563 | 0.961406 | | | 1.021032 | 1.042507 | 1.064433 | 1.08682 | 1.109678 | | 1.156847 | 1.181177 | 1.20602 |
| 240 | 0.908923 | 0.917958 | | | 1 | 1.021032 | 1.042507 | 1.064433 | 1.08682 | 1.109678 | 1.133017 | 1.156847 | 1.181177 | 1.20602 |
| 241 | 0.908923 | | | | 1 | 1.021032 | 1.042507 | 1.064433 | 1.08682 | | | 1.156847 | | 1.20602 |
| 242 | 0.908923 | 0.917958 | | | 1 | 1.021032 | 1.042507 | 1.064433 | 1.08682 | 1.109678 | | 1.156847 | 1.181177 | 1.20602 |
| 243 | | 0.923701 | 0.956574 | | 1 | 1.014934 | | 1.045475 | 1.061088 | | | | | |
| 244 | 0.989441 | 0.967624 | 0.966922 | 0.985286 | | 1.014934 | 1.030091 | 1.045475 | 1.061088 | | | | | |
| 245 | | 1.016392 | 0.98389 | | | 1.014934 | 1.030091 | 1.045475 | 1.061088 | | | 1.109341 | | |
| 246 | | | 0.98389 | | | 1.014934 | | 1.045475 | 1.061088 | | | | | |
| 247 | 0.933835 | | 0.972299 | | | 1.014334 | 1.029967 | 1.045286 | 1.060833 | | 1.092623 | 1.108874 | 1.125367 | 1.142104 |
| 248 | 0.9546 | | 0.977672 | 0.992068 | | 1.007996 | 1.016055 | 1.024179 | 1.032368 | | 1.048943 | 1.05733 | | |
| 249 | 0.940037 | 0.93951 | 0.965935 | | | 1.016918 | | | 1.06941 | 1.087502 | | 1.124611 | | |
| 250 | | | 0.972579 | | + | 1.016918 | | 1.051618 | 1.06941 | 1.087502 | | 1.124611 | | |
| | | | | | | 1.010918 | | | 1.00941 | | | | 1.148351 | 1.16838 |
| 251 | | | | | | | | | | | | | | |
| 252 253 | 0.922611 0.922611 | 0.950686 0.950686 | | | | 1.017441 1.017441 | 1.035187 1.035187 | 1.053242 1.053242 | 1.071612 1.071612 | 1.090302 1.090302 | 1.109318 1.109318 | 1.128666 1.128666 | | 1.16838 1.16838 |
| 253 | | | 0.978383 | | | 1.017441 | | | 1.071612 | | | | | |
| | | | | | + | | | | | | | | | |
| 255 | | | | | | 1.009023 | 1.018128 | | 1.036585 | | | 1.064899 | | |
| 256 | | | - | | + | 1.009023 | 1.018128 | | 1.036585 | | | 1.064899 | | |
| 257 | 0.923107 | 0.933234 | 0.981152 | 0.991057 | | 1.009023 | 1.018128 | | 1.036585 | 1.045938 | 1.055376 | 1.064899 | | |
| 258 | | 0.933234 | 0.981152 | | | 1.009023 | 1.018128 | | 1.036585 | 1.045938 | | 1.064899 | | |
| 259 | | 0.933234 | | | | 1.009023 | | | 1.036585 | | | 1.064899 | | |
| 260 | | 0.898683 | 0.950089 | | + | 1.009023 | 1.018128 | | 1.036585 | 1.045938 | 1.055376 | 1.064899 | | |
| 261 | 0.945422 | 0.958582 | 0.983333 | | + | 1.009023 | 1.018128 | | 1.036585 | 1.045938 | 1.055376 | 1.064899 | | |
| 262 | 0.91697 | 0.933384 | 0.961929 | | + | 1.018386 | | | 1.075596 | | 1.11551 | 1.136019 | | |
| 263 | 0.974201 | 0.972234 | 0.967538 | | | 1.018386 | 1.037109 | | 1.075596 | 1.095371 | 1.11551 | 1.136019 | | |
| 264 | | | - | | | 1.018386 | | | 1.075596 | | 1.11551 | | | - |
| 265 | 0.928941 | 0.928077 | 0.95301 | | | 1.018386 | 1.037109 | | 1.075596 | 1.095371 | 1.11551 | 1.136019 | | |
| 266 | | | | 0.981946 | | 1.018386 | | | 1.075596 | | 1.11551 | | 1.156906 | |
| 267 | | 0.936299 | | | | | | | | | | | | 1.337885 |
| 268 | | | | | | 1.032872 | | | | | 1.214169 | | | - |
| 269 | | | | | ł | 1.032872 | 1.066825 | | 1.138115 | | | 1.254081 | | - |
| 270 | | | | | | 1.032872 | 1.066825 | | | 1.175527 | | 1.254081 | | |
| 271 | | 0.93696 | | | | 1.032872 | 1.066825 | | | | 1.214169 | | 1.295305 | |
| 272 | | | | | | 0.987585 | 0.975325 | | | 0.939449 | | | | |
| 273 | 0.994628 | 0.988252 | 0.998129 | 1.012571 | 1 | 0.987585 | 0.975325 | 0.963216 | 0.951258 | 0.939449 | 0.927786 | 0.916268 | 0.904892 | 0.893658 |
| | | | | | | | | | | | | | | |

| 274 | 0.973079 | 0.983188 | 0.997338 | 1.012571 | 1 | 0.987585 | 0.975325 | 0.963216 | 0.951258 | 0.939449 | 0.927786 | 0.916268 | 0.904892 | 0.893658 |
|------------|----------------------|----------------------|----------------------|----------------------|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 274 | 0.935492 | 0.933902 | 0.966008 | 0.984624 | 1 | 1.015616 | 1.031476 | 1.047583 | 1.063942 | 1.080556 | 1.09743 | 1.114567 | 1.131972 | 1.149649 |
| 276 | 0.925599 | 0.934161 | | 0.984624 | 1 | 1.015616 | 1.031476 | 1.047583 | 1.063942 | 1.080556 | 1.09743 | 1.114567 | 1.131972 | 1.149649 |
| 277 | 0.931633 | 0.929611 | 0.961725 | 0.984624 | 1 | 1.015616 | 1.031476 | 1.047583 | 1.063942 | 1.080556 | 1.09743 | 1.114567 | 1.131972 | 1.149649 |
| 278 | 0.971818 | 0.967279 | | 0.982449 | 1 | 1.017864 | 1.036048 | 1.054556 | 1.073395 | 1.09257 | 1.112088 | 1.131954 | 1.152176 | |
| 279 | 0.945645 | 0.943451 | 0.96782 | 0.982449 | 1 | 1.017864 | 1.036048 | 1.054556 | 1.073395 | 1.09257 | 1.112088 | 1.131954 | 1.152176 | 1.172759 |
| 280 | 0.932301 | 0.936487 | 0.967626 | 0.982449 | 1 | 1.017864 | 1.036048 | 1.054556 | 1.073395 | 1.09257 | 1.112088 | 1.131954 | 1.152176 | 1.172759 |
| 281 | 0.923711 | 0.930269 | 0.949639 | 0.982449 | 1 | 1.017864 | 1.036048 | 1.054556 | 1.073395 | 1.09257 | 1.112088 | 1.131954 | 1.152176 | 1.172759 |
| 282 | 0.932301 | 0.936487 | 0.967626 | 0.982449 | 1 | 1.017864 | 1.036048 | 1.054556 | 1.073395 | 1.09257 | 1.112088 | 1.131954 | 1.152176 | 1.172759 |
| 283 | 0.984316 | 0.976038 | 0.98909 | 0.982938 | 1 | 1.017359 | 1.035018 | 1.052985 | 1.071263 | 1.089859 | 1.108777 | 1.128024 | 1.147605 | 1.167526 |
| 284 | 0.901306 | 0.899756 | 0.947228 | 0.982938 | 1 | 1.017359 | 1.035018 | 1.052985 | 1.071263 | 1.089859 | 1.108777 | 1.128024 | 1.147605 | 1.167526 |
| 285 | 0.921147 | 0.928056 | | | 1 | 1.017359 | 1.035018 | 1.052985 | 1.071263 | 1.089859 | 1.108777 | 1.128024 | 1.147605 | 1.167526 |
| 286 | 0.956975 | 0.953415 | 0.97088 | | 1 | 1.017359 | 1.035018 | 1.052985 | 1.071263 | 1.089859 | 1.108777 | 1.128024 | 1.147605 | 1.167526 |
| 287 | 0.97707 | 0.987212 | 1.001878 | 1.024507 | 1 | 0.976079 | 0.952731 | 0.929941 | 0.907696 | 0.885984 | 0.86479 | 0.844104 | 0.823913 | 0.804204 |
| 288 | 0.930592 | 0.94026 | | 1.024507 | 1 | 0.976079 | 0.952731 | 0.929941 | 0.907696 | 0.885984 | 0.86479 | 0.844104 | 0.823913 | 0.804204 |
| 289 | 0.97707 | 0.987212 | | | 1 | 0.976079 | 0.952731 | 0.929941 | 0.907696 | 0.885984 | 0.86479 | 0.844104 | 0.823913 | |
| 290 | 0.960391 | 0.965837 | 0.988166 | | 1 | 0.976079 | 0.952731 | 0.929941 | 0.907696 | 0.885984 | 0.86479 | 0.844104 | 0.823913 | 0.804204 |
| 291 | 0.960391 | 0.965837 | 0.988166 | | 1 | 0.976079 | 0.952731 | 0.929941 | 0.907696 0.907696 | 0.885984 | 0.86479 | 0.844104 | 0.823913 | 0.804204 |
| 292 293 | 0.960391 0.960391 | 0.965837 0.965837 | 0.988166 0.988166 | | 1 | 0.976079 0.976079 | 0.952731 0.952731 | 0.929941 0.929941 | 0.907696 | 0.885984 0.885984 | 0.86479 0.86479 | 0.844104 0.844104 | 0.823913 0.823913 | 0.804204 0.804204 |
| 294 | 1.000055 | 1.002566 | | | 1 | 0.976079 | 0.952731 | 0.929941 | 0.907696 | 0.885984 | 0.86479 | 0.844104 | 0.823913 | 0.804204 |
| 295 | 0.946392 | 0.958326 | | 1.024507 | 1 | 0.976079 | 0.952731 | 0.929941 | 0.907696 | 0.885984 | 0.86479 | 0.844104 | 0.823913 | 0.804204 |
| 296 | 0.950554 | 0.97678 | | | 1 | 0.976079 | 0.952731 | 0.929941 | 0.907696 | 0.885984 | 0.86479 | 0.844104 | 0.823913 | 0.804204 |
| 297 | 0.974811 | 0.98608 | | | 1 | 0.976079 | 0.952731 | 0.929941 | 0.907696 | 0.885984 | 0.86479 | 0.844104 | 0.823913 | 0.804204 |
| 298 | 0.954601 | 0.969331 | | 1.024507 | 1 | 0.976079 | 0.952731 | 0.929941 | 0.907696 | 0.885984 | 0.86479 | 0.844104 | 0.823913 | 0.804204 |
| 299 | 0.954601 | 0.969331 | 0.995525 | 1.024507 | 1 | 0.976079 | 0.952731 | 0.929941 | 0.907696 | 0.885984 | 0.86479 | 0.844104 | 0.823913 | 0.804204 |
| 300 | 0.946392 | 0.958326 | 0.995869 | 1.024507 | 1 | 0.976079 | 0.952731 | 0.929941 | 0.907696 | 0.885984 | 0.86479 | 0.844104 | 0.823913 | 0.804204 |
| 301 | 1.302287 | 1.196815 | 1.127676 | 1.098219 | 1 | 0.910565 | 0.829129 | 0.754977 | 0.687456 | 0.625973 | 0.56999 | 0.519013 | 0.472595 | 0.430329 |
| 302 | 1.070952 | 1.002261 | 0.999488 | 1.098219 | 1 | 0.910565 | 0.829129 | 0.754977 | 0.687456 | 0.625973 | 0.56999 | 0.519013 | 0.472595 | 0.430329 |
| 303 | 1.109256 | 1.100226 | 1.092783 | 1.098219 | 1 | 0.910565 | 0.829129 | 0.754977 | 0.687456 | 0.625973 | 0.56999 | 0.519013 | 0.472595 | 0.430329 |
| 304 | 1.032905 | 1.024859 | 1.019694 | 1.023661 | 1 | 0.976886 | 0.954306 | 0.932249 | 0.910701 | 0.889651 | 0.869088 | 0.849 | 0.829376 | 0.810206 |
| 305 | 1.024655 | 1.028876 | 1.030546 | 1.023661 | 1 | 0.976886 | 0.954306 | 0.932249 | 0.910701 | 0.889651 | 0.869088 | 0.849 | 0.829376 | 0.810206 |
| 306 | 0.979402 | 0.992134 | | 1.023661 | 1 | 0.976886 | 0.954306 | 0.932249 | 0.910701 | 0.889651 | 0.869088 | 0.849 | 0.829376 | |
| 307 | 1.023442 | 1.017598 | | | 1 | 0.984171 | 0.968593 | 0.953261 | 0.938172 | 0.923322 | 0.908707 | 0.894324 | 0.880168 | |
| 308 | 0.968684 | 0.976308 | | | 1 | 0.984182 | 0.968614 | 0.953292 | 0.938213 | 0.923372 | 0.908766 | 0.894391 | 0.880243 | |
| 309 | 1.230246 | | | | 1 | 0.984182 | 0.968614 | 0.953292 | 0.938213 | 0.923372 | 0.908766 | 0.894391 | 0.880243 | |
| 310 | 0.968684 | 0.976308 | | | 1 | 0.984182 | 0.968614 | 0.953292 | 0.938213 | 0.923372 | 0.908766 | 0.894391 | 0.880243 | |
| 311 312 | 0.968684 1.053492 | 0.976308 1.037722 | 0.992369 1.02253 | | 1 | 0.984182 0.984182 | 0.968614 0.968614 | 0.953292 0.953292 | 0.938213 0.938213 | 0.923372 0.923372 | 0.908766 0.908766 | 0.894391 0.894391 | 0.880243 0.880243 | 0.866319 0.866319 |
| 313 | 0.968684 | 0.976308 | | | 1 | 0.984182 | 0.968614 | 0.953292 | 0.938213 | 0.923372 | 0.908766 | 0.894391 | 0.880243 | |
| 314 | 1.012071 | 1.004936 | | | 1 | 1.002631 | 1.005269 | 1.007914 | 1.010566 | | 1.015891 | 1.018564 | 1.021244 | |
| 315 | 0.952585 | 0.961501 | | | | 1.002631 | 1.005269 | | 1.010566 | | | 1.018564 | | |
| 316 | 0.956193 | 0.963469 | | 0.997376 | | 1.002631 | 1.005269 | 1.007914 | 1.010566 | | | 1.018564 | 1.021244 | |
| 317 | 0.93258 | 0.943696 | | 0.997376 | 1 | 1.002631 | 1.005269 | 1.007914 | 1.010566 | | 1.015891 | 1.018564 | 1.021244 | |
| 318 | 0.912888 | 0.924053 | 0.954114 | 0.997376 | 1 | 1.002631 | 1.005269 | 1.007914 | 1.010566 | 1.013225 | 1.015891 | 1.018564 | 1.021244 | 1.023931 |
| 319 | 0.95802 | 0.965033 | 0.974125 | 0.997376 | 1 | 1.002631 | 1.005269 | 1.007914 | 1.010566 | 1.013225 | 1.015891 | 1.018564 | 1.021244 | 1.023931 |
| 320 | 0.981099 | 0.98576 | 0.991214 | 0.997376 | 1 | 1.002631 | 1.005269 | 1.007914 | 1.010566 | 1.013225 | 1.015891 | 1.018564 | 1.021244 | 1.023931 |
| 321 | 0.980897 | 0.981887 | | 0.997376 | 1 | 1.002631 | 1.005269 | 1.007914 | 1.010566 | 1.013225 | 1.015891 | 1.018564 | 1.021244 | 1.023931 |
| 322 | 0.970588 | 0.972102 | | | | 1.002631 | 1.005269 | 1.007914 | 1.010566 | 1.013225 | 1.015891 | 1.018564 | 1.021244 | |
| 323 | 1.089252 | 1.050856 | | | 1 | 0.969831 | 0.940572 | 0.912196 | 0.884676 | | 0.832102 | 0.806999 | 0.782652 | |
| 324 | 1.089252 | 1.050856 | | 1.031107 | 1 | 0.969831 | 0.940572 | 0.912196 | 0.884676 | | 0.832102 | 0.806999 | 0.782652 | 0.759041 |
| 325 | 0.902292 | 0.913156 | | | 1 | 1.015567 | 1.031377 | 1.047433 | 1.063739 | | | | 1.13154 | |
| 326 | 0.943533 | 0.942609 | | | 1 | 1.015567 | 1.031377 | 1.047433 | 1.063739 | 1.080298 | 1.097116 | 1.114195 | 1.13154 | |
| 327 | 0.99814 0.971046 | 0.994956 0.970094 | | 1.032047 | 1 | 0.968948 | 0.938861 0.938861 | 0.909708 0.909708 | 0.88146 0.88146 | 0.854089 0.854089 | 0.827568 | 0.801871 | 0.776971 0.776971 | 0.752845 |
| 328 329 | 1.024537 | 0.970094 | | 1.032047 1.032047 | 1 | 0.968948 0.968948 | 0.938861 | 0.909708 | 0.88146 | | 0.827568 0.827568 | 0.801871 0.801871 | 0.776971 | 0.752845 0.752845 |
| 330 | 0.962111 | 0.989313 | 0.996608 | 1.032047 | 1 | 0.968948 | 0.938861 | 0.909708 | 0.88146 | 0.854089 | 0.827568 | 0.801871 | 0.776971 | 0.752845 |
| 331 | 0.982111 | 0.990883 | | | 1 | 0.968948 | 0.938861 | 0.909708 | 0.88146 | | | 0.801871 | 0.776971 | 0.752845 |
| 332 | 0.893362 | 0.955531 | | 0.980634 | 1 | 1.019748 | 1.039886 | 1.060422 | 1.081363 | 1.102718 | | 1.146701 | 1.169346 | |
| 333 | 0.875778 | 0.89733 | | | 1 | 1.019748 | 1.039886 | 1.060422 | 1.081363 | | | 1.146701 | 1.169346 | |
| 334 | 0.950282 | 0.963586 | | 0.980634 | | 1.019748 | 1.039886 | 1.060422 | 1.081363 | 1.102718 | | 1.146701 | 1.169346 | |
| 335 | 0.913399 | 0.940189 | | 0.980634 | 1 | 1.019748 | 1.039886 | | 1.081363 | | | 1.146701 | 1.169346 | |
| 336 | | | 0.964532 | | 1 | | | | | | | | | 1.074135 |
| 337 | 0.970596 | | | 0.992085 | | | | 1.024125 | 1.032295 | | | | | 1.074135 |
| 338 | 0.85773 | 0.945699 | 1.009643 | 0.992085 | 1 | 1.007978 | 1.016019 | 1.024125 | 1.032295 | 1.040531 | 1.048832 | 1.057199 | 1.065633 | 1.074135 |
| 339 | 0.85773 | 0.945699 | 1.009643 | 0.992085 | 1 | 1.007978 | 1.016019 | 1.024125 | 1.032295 | 1.040531 | 1.048832 | 1.057199 | 1.065633 | 1.074135 |
| 340 | 0.899369 | 0.922447 | 0.957541 | 0.992085 | 1 | | 1.016019 | | 1.032295 | 1.040531 | 1.048832 | 1.057199 | 1.065633 | 1.074135 |
| 341 | | | | | | | | 1.024125 | | | 1.048832 | 1.057199 | | 1.074135 |
| 342 | 0.963517 | 0.973075 | 0.976428 | 0.992085 | 1 | 1.007978 | 1.016019 | 1.024125 | 1.032295 | 1.040531 | 1.048832 | 1.057199 | 1.065633 | 1.074135 |

| 2.22 | | | | | 1 . | | | | | | | | | |
|------|----------|----------|----------|-----------|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 343 | 1.003688 | 0.991062 | 0.999222 | 1.010373 | | 0.989734 | 0.979573 | 0.969517 | 0.959563 | | | 0.930313 | | 0.911309 |
| 344 | 0.957808 | 0.96684 | 0.975212 | 1.010373 | 1 | 0.989734 | 0.979573 | 0.969517 | 0.959563 | 0.949712 | 0.939962 | 0.930313 | 0.920762 | 0.911309 |
| 345 | 0.933965 | 0.963628 | 0.985688 | 1.010373 | 1 | 0.989734 | 0.979573 | 0.969517 | 0.959563 | 0.949712 | 0.939962 | 0.930313 | 0.920762 | 0.911309 |
| 346 | 0.97274 | 0.982118 | 0.99345 | 1.006728 | 1 | 0.993317 | 0.986679 | 0.980085 | 0.973535 | 0.967029 | 0.960566 | 0.954147 | 0.94777 | 0.941436 |
| 347 | 0.913248 | 0.934043 | 0.979139 | 1.006728 | 1 | 0.993317 | 0.986679 | 0.980085 | 0.973535 | 0.967029 | 0.960566 | 0.954147 | 0.94777 | 0.941436 |
| 348 | 0.988791 | 0.975581 | 0.983185 | 1.006728 | 1 | 0.993317 | 0.986679 | 0.980085 | 0.973535 | | 0.960566 | 0.954147 | 0.94777 | 0.941436 |
| 349 | 0.966855 | 0.96146 | | | | 0.993317 | 0.986679 | 0.980085 | 0.973535 | | 0.960566 | 0.954147 | 0.94777 | 0.941436 |
| 350 | 0.904332 | 0.937484 | 0.976488 | 0.99065 | | 1.009438 | 1.018966 | | 1.038291 | 1.048091 | 1.057983 | 1.067968 | 1.078048 | |
| | | | | | | | | | | | | | | |
| 351 | 0.966083 | 0.972758 | 0.984525 | 0.99065 | | 1.009438 | 1.018966 | 1.028583 | 1.038291 | 1.048091 | 1.057983 | 1.067968 | 1.078048 | |
| 352 | 0.962132 | 0.965779 | 0.980827 | 0.99065 | | 1.009438 | 1.018966 | 1.028583 | 1.038291 | 1.048091 | 1.057983 | 1.067968 | 1.078048 | |
| 353 | 0.959207 | 0.961548 | 0.97161 | 0.99065 | 1 | 1.009438 | 1.018966 | 1.028583 | 1.038291 | 1.048091 | 1.057983 | 1.067968 | 1.078048 | 1.088223 |
| 354 | 0.985457 | 0.978746 | 0.984353 | 0.99065 | 1 | 1.009438 | 1.018966 | 1.028583 | 1.038291 | 1.048091 | 1.057983 | 1.067968 | 1.078048 | 1.088223 |
| 355 | 1.000222 | 0.98908 | 0.9898 | 0.99065 | 1 | 1.009438 | 1.018966 | 1.028583 | 1.038291 | 1.048091 | 1.057983 | 1.067968 | 1.078048 | 1.088223 |
| 356 | 0.944934 | 0.963445 | 0.988599 | 0.99065 | 1 | 1.009438 | 1.018966 | 1.028583 | 1.038291 | 1.048091 | 1.057983 | 1.067968 | 1.078048 | 1.088223 |
| 357 | 0.936411 | 0.944689 | 0.964054 | 0.982482 | 1 | 1.01783 | 1.035978 | 1.05445 | 1.07325 | | 1.111864 | 1.131688 | 1.151866 | |
| 358 | 0.905247 | 0.926837 | 0.954528 | | 1 | 1.01783 | 1.035978 | 1.05445 | 1.07325 | | | 1.131688 | | |
| | 0.95924 | 0.961772 | | | 1 | 1.01783 | 1.035978 | 1.05445 | 1.07325 | | | | | |
| 359 | | | 0.976938 | | | | | | | | 1.111864 | 1.131688 | | |
| 360 | 0.928938 | 0.941693 | 0.96526 | | 1 | 1.01783 | 1.035978 | 1.05445 | 1.07325 | | | 1.131688 | | |
| 361 | 0.903739 | 0.920323 | 0.949071 | 0.982482 | 1 | 1.01783 | 1.035978 | 1.05445 | 1.07325 | 1.092386 | 1.111864 | 1.131688 | 1.151866 | 1.172404 |
| 362 | 0.939146 | 0.948247 | 0.964607 | 0.98616 | 1 | 1.014034 | 1.028266 | 1.042696 | 1.05733 | 1.072169 | 1.087216 | 1.102474 | 1.117947 | 1.133636 |
| 363 | 0.945109 | 0.955392 | 0.973434 | 0.980125 | 1 | 1.020278 | 1.040966 | 1.062074 | 1.083611 | 1.105584 | 1.128002 | 1.150875 | 1.174212 | 1.198022 |
| 364 | 0.928009 | 0.94256 | 0.958716 | 0.980125 | 1 | 1.020278 | 1.040966 | 1.062074 | 1.083611 | 1.105584 | 1.128002 | 1.150875 | 1.174212 | 1.198022 |
| 365 | 0.954366 | 0.959357 | 0.965866 | 0.984686 | 1 | 1.015552 | 1.031346 | 1.047386 | 1.063675 | 1.080218 | 1.097018 | 1.114079 | 1.131405 | 1.149001 |
| 366 | 0.949443 | 0.954722 | 0.967871 | 0.984686 | 1 | 1.015552 | 1.031346 | 1.047386 | 1.063675 | | | | | |
| 367 | 0.962914 | 0.970416 | | | | 1.015552 | 1.031346 | 1.047386 | 1.063675 | | | 1.114079 | | |
| 368 | 0.954836 | 0.95582 | 0.971231 | 0.990833 | | 1.013332 | 1.031340 | 1.028012 | 1.003073 | 1.047121 | 1.056808 | 1.066585 | 1.076452 | |
| | | | | | | - | | | - | | | | | |
| 369 | 0.956394 | 0.954156 | | | 1 | 1.009251 | 1.018588 | 1.028012 | 1.037522 | 1.047121 | 1.056808 | 1.066585 | 1.076452 | |
| 370 | 0.936347 | 0.94955 | 0.970318 | | 1 | 1.009251 | 1.018588 | 1.028012 | 1.037522 | 1.047121 | 1.056808 | 1.066585 | 1.076452 | |
| 371 | 0.961956 | 0.953567 | 0.972576 | 0.990833 | 1 | 1.009251 | 1.018588 | 1.028012 | 1.037522 | 1.047121 | 1.056808 | 1.066585 | 1.076452 | 1.086411 |
| 372 | 0.937251 | 0.937804 | 0.966212 | 0.990833 | | 1.009251 | 1.018588 | 1.028012 | 1.037522 | 1.047121 | 1.056808 | 1.066585 | 1.076452 | 1.086411 |
| 373 | 0.938596 | 0.944978 | 0.965064 | 0.982804 | 1 | 1.017497 | 1.0353 | 1.053415 | 1.071846 | 1.090601 | 1.109683 | 1.129099 | 1.148855 | 1.168956 |
| 374 | 0.938596 | 0.944978 | 0.965064 | 0.982804 | | 1.017497 | 1.0353 | | | 1.090601 | 1.109683 | 1.129099 | | |
| 375 | 0.938596 | 0.944978 | 0.965064 | 0.982804 | 1 | 1.017497 | 1.0353 | 1.053415 | 1.071846 | 1.090601 | 1.109683 | 1.129099 | 1.148855 | 1.168956 |
| 376 | 0.932956 | 0.93846 | | | | 1.017497 | 1.0353 | | 1.071846 | | 1.109683 | 1.129099 | | |
| 377 | 0.980296 | | 0.992344 | 1.042437 | | 0.959291 | 0.920239 | | 0.84684 | | | 0.747571 | 0.717138 | |
| | | | | | | | | | | | | | | |
| 378 | 0.980296 | 0.971071 | 0.992344 | 1.042437 | | 0.959291 | 0.920239 | 0.882777 | 0.84684 | | 0.779295 | 0.747571 | 0.717138 | |
| 379 | 0.974466 | 0.980147 | 0.981619 | 0.983568 | 1 | 1.016707 | 1.033692 | 1.050962 | 1.06852 | | 1.104521 | 1.122974 | 1.141735 | 1.16081 |
| 380 | 0.960853 | 0.968694 | 0.982261 | 0.983568 | 1 | 1.016707 | 1.033692 | 1.050962 | 1.06852 | 1.086372 | 1.104521 | 1.122974 | 1.141735 | 1.16081 |
| 381 | 0.822877 | 0.867575 | 0.967612 | 0.983568 | 1 | 1.016707 | 1.033692 | 1.050962 | 1.06852 | 1.086372 | 1.104521 | 1.122974 | 1.141735 | 1.16081 |
| 382 | 0.845229 | 0.865346 | 0.892173 | 0.983568 | 1 | 1.016707 | 1.033692 | 1.050962 | 1.06852 | 1.086372 | 1.104521 | 1.122974 | 1.141735 | 1.16081 |
| 383 | 0.730652 | 0.847389 | 1.005707 | 0.983568 | 1 | 1.016707 | 1.033692 | 1.050962 | 1.06852 | 1.086372 | 1.104521 | 1.122974 | 1.141735 | 1.16081 |
| 384 | 0.766978 | | | | | 1.005839 | | 1.017619 | 1.02356 | | 1.035548 | | | |
| 385 | 1.005009 | 1.006084 | 0.993019 | | | 1.005839 | 1.011712 | 1.017619 | 1.02356 | | 1.035548 | 1.041594 | | |
| | | | | | | | | | | | | | | |
| 386 | 0.95887 | 0.949023 | 0.970147 | 0.994195 | | 1.005839 | 1.011712 | 1.017619 | 1.02356 | | 1.035548 | 1.041594 | | |
| 387 | 0.973766 | 0.969578 | | 0.994195 | | 1.005839 | | 1.017619 | 1.02356 | | 1.035548 | | | |
| 388 | 0.976818 | 0.977687 | 0.986234 | | | 1.005839 | | 1.017619 | 1.02356 | | 1.035548 | | | |
| 389 | 0.964031 | 0.959182 | 0.980062 | 0.994195 | | 1.005839 | 1.011712 | 1.017619 | 1.02356 | 1.029537 | 1.035548 | 1.041594 | 1.047676 | 1.053793 |
| 390 | 0.964031 | 0.959182 | 0.980062 | 0.994195 | 1 | 1.005839 | 1.011712 | 1.017619 | 1.02356 | 1.029537 | 1.035548 | 1.041594 | 1.047676 | 1.053793 |
| 391 | 0.964031 | 0.959182 | 0.980062 | 0.994195 | 1 | 1.005839 | 1.011712 | 1.017619 | 1.02356 | 1.029537 | 1.035548 | 1.041594 | 1.047676 | 1.053793 |
| 392 | 0.964031 | 0.959182 | 0.980062 | 0.994195 | 1 | 1.005839 | 1.011712 | 1.017619 | 1.02356 | 1.029537 | 1.035548 | 1.041594 | 1.047676 | 1.053793 |
| 393 | 0.964031 | 0.959182 | 0.980062 | 0.994195 | | 1.005839 | | 1.017619 | 1.02356 | | 1.035548 | | | |
| 394 | 0.964031 | 0.959182 | 0.980062 | 0.994195 | | 1.005839 | | 1.017619 | 1.02356 | | 1.035548 | | | |
| 395 | 0.919683 | 0.939604 | 0.966904 | 0.993102 | 1 | 1.006946 | 1.011712 | 1.020982 | 1.028073 | | 1.042404 | 1.049644 | 1.056935 | |
| | | | | | 1 | | | | | | | | | |
| 396 | 0.949455 | 0.980872 | 0.997915 | | | 1.008576 | | 1.02595 | 1.034749 | | 1.052573 | 1.0616 | | |
| 397 | 0.965971 | 0.965308 | | | | 1.008576 | | 1.02595 | | | 1.052573 | | 1.070705 | |
| 398 | 0.965971 | 0.965308 | | | | 1.008576 | | 1.02595 | 1.034749 | | 1.052573 | 1.0616 | | |
| 399 | 0.965971 | 0.965308 | 0.978579 | 0.991497 | 1 | 1.008576 | 1.017226 | 1.02595 | 1.034749 | 1.043623 | 1.052573 | 1.0616 | 1.070705 | 1.079887 |
| 400 | 0.928038 | 0.907853 | 0.952352 | 0.991497 | 1 | 1.008576 | 1.017226 | 1.02595 | 1.034749 | 1.043623 | 1.052573 | 1.0616 | 1.070705 | 1.079887 |
| 401 | 0.965971 | 0.965308 | 0.978579 | 0.991497 | 1 | 1.008576 | 1.017226 | 1.02595 | 1.034749 | 1.043623 | 1.052573 | 1.0616 | 1.070705 | 1.079887 |
| 402 | 0.965971 | 0.965308 | | | | 1.008576 | | 1.02595 | 1.034749 | | 1.052573 | 1.0616 | | |
| 403 | 0.965971 | 0.965308 | 0.978579 | | | 1.008576 | 1.017226 | 1.02595 | 1.034749 | | 1.052573 | 1.0616 | | |
| | | | | | | | | | | | | | | |
| 404 | 0.965971 | 0.965308 | | | | 1.008576 | | | | 1.043623 | 1.052573 | 1.0616 | | |
| 405 | | 0.921442 | | | | 1.008576 | | | | | 1.052573 | | 1.070705 | |
| 406 | | | | | | | 1.017226 | | | 1.043623 | | | 1.070705 | |
| 407 | 0.965971 | | | | | | 1.017226 | 1.02595 | | 1.043623 | 1.052573 | | 1.070705 | 1.079887 |
| 408 | 0.788156 | 0.846629 | 0.930442 | 0.979087 | 1 | 1.02136 | 1.043176 | 1.065458 | 1.088216 | 1.11146 | 1.1352 | 1.159448 | 1.184213 | 1.209508 |
| 409 | 0.830885 | 0.870543 | 0.941492 | 0.982181 | 1 | 1.018143 | 1.036615 | 1.055422 | 1.07457 | 1.094066 | 1.113915 | 1.134124 | 1.1547 | 1.17565 |
| 410 | | | | | 1 | 1.026606 | | | | 1.140302 | | | | |
| 411 | | | | | | 1.015694 | | 1.047825 | | 1.080972 | 1.097937 | | 1.132669 | |
| | J.555515 | 2.201010 | J.JJ2707 | 2.20 7272 | | 01000 | + | ,023 | 1203 | | / | | | |

| 412 | 0.869836 | 0.907317 | 0.952322 | 0.983462 | 1 | 1.016816 | 1.033914 | 1.0513 | 1.068979 | 1.086954 | 1.105232 | 1.123818 | 1.142715 | 1.161931 |
|------------|----------------------|----------------------|----------------------|----------------------|-------------|----------------------|--------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 413 | 0.809830 | 0.962947 | 1.003637 | 1.022543 | | 0.977954 | 0.956394 | 0.935309 | 0.91469 | | 0.874804 | 0.855518 | | 0.818212 |
| 414 | 0.925603 | 0.938006 | | 0.975261 | | 1.025366 | 1.051376 | | 1.105392 | 1.133432 | | 1.191664 | 1.221892 | |
| 415 | | 0.840919 | | | 1 | 1.015706 | 1.031659 | | 1.06432 | 1.081037 | 1.098016 | 1.115261 | 1.132778 | |
| 416 | | 1.014511 | 0.996485 | 0.97541 | | 1.02521 | 1.051055 | 1.077552 | 1.104717 | 1.132567 | 1.161119 | | 1.2204 | |
| 417 | 0.958666 | 0.969911 | 0.974321 | 0.979344 | 1 | 1.021092 | 1.042628 | 1.064619 | 1.087073 | 1.110001 | 1.133413 | 1.157318 | 1.181728 | 1.206653 |
| 418 | 0.952456 | 0.960647 | 0.972048 | 0.979344 | 1 | 1.021092 | 1.042628 | 1.064619 | 1.087073 | 1.110001 | 1.133413 | 1.157318 | 1.181728 | 1.206653 |
| 419 | 0.912061 | 0.935556 | 0.952894 | 0.979344 | 1 | 1.021092 | 1.042628 | 1.064619 | 1.087073 | 1.110001 | 1.133413 | 1.157318 | 1.181728 | 1.206653 |
| 420 | 0.966166 | 0.965393 | 0.973528 | 0.979344 | 1 | 1.021092 | 1.042628 | 1.064619 | 1.087073 | 1.110001 | 1.133413 | 1.157318 | 1.181728 | 1.206653 |
| 421 | 0.966166 | 0.965393 | 0.973528 | 0.979344 | 1 | 1.021092 | 1.042628 | 1.064619 | 1.087073 | 1.110001 | 1.133413 | 1.157318 | 1.181728 | 1.206653 |
| 422 | 1.03231 | 1.007834 | 1.011994 | 1.006317 | 1 | 0.993723 | 0.987485 | 0.981287 | 0.975127 | 0.969006 | 0.962924 | 0.956879 | 0.950873 | 0.944904 |
| 423 | 0.938177 | 0.948479 | | 0.968593 | + | 1.032425 | 1.065902 | 1.100464 | 1.136147 | 1.172987 | 1.211022 | 1.25029 | 1.290831 | |
| 424 | | 1.020955 | | | + | 1.032425 | 1.065902 | 1.100464 | 1.136147 | 1.172987 | 1.211022 | 1.25029 | | |
| 425 | 0.842732 | 0.889521 | 0.924528 | | | 1.015113 | 1.030454 | 1.046028 | 1.061836 | | 1.094174 | 1.11071 | 1.127496 | |
| 426 | 0.870956 | 0.90501 | 0.935842 | 0.985112 | + | 1.015113 | 1.030454 | 1.046028 | 1.061836 | 1.077884 | 1.094174 | 1.11071 | 1.127496 | |
| 427 | 0.958458 | | | | + | 1.011559 | 1.023252 | | 1.047044 | 1.059147 | 1.071389 | 1.083774 | 1.096301 | |
| 428 | 1.080301 | 1.039585 | 1.007392 | 0.988573 | + | 1.011559 | 1.023252 | 1.035079 | 1.047044 | | 1.071389 | 1.083774 | 1.096301 | 1.108973 |
| 429 | 0.982941 0.963908 | 0.980896 0.961363 | | 0.988573 0.968853 | | 1.011559 | 1.023252 | 1.035079 1.099579 | 1.047044 | 1.059147 | 1.071389 | 1.083774 1.247944 | 1.096301 1.288063 | 1.108973 1.329472 |
| 430 431 | 0.949828 | 0.951363 | 0.965364 0.960912 | 0.968853 | + | 1.032148 1.032148 | 1.06533 1.06533 | | 1.134929 1.134929 | 1.171415 1.171415 | | 1.247944 | 1.288063 | |
| 432 | 0.949828 | | | 0.968853 | + | 1.032148 | 1.06533 | | 1.134929 | | | 1.247944 | 1.288063 | |
| 433 | 0.88117 | 0.929159 | 0.926506 | | + | 1.020488 | 1.041397 | 1.062733 | 1.084507 | 1.106726 | | 1.152541 | | |
| 434 | 0.905007 | 0.92631 | 0.938284 | 0.979923 | + | 1.020488 | 1.041397 | 1.062733 | 1.084507 | 1.106726 | | 1.152541 | 1.176155 | |
| 435 | 0.94412 | 0.965543 | 0.996623 | | + | 1.005675 | 1.011382 | 1.017122 | 1.022894 | 1.028699 | | 1.040407 | 1.046311 | |
| 436 | | | | 0.994357 | | 1.005675 | 1.011382 | 1.017122 | 1.022894 | 1.028699 | | 1.040407 | 1.046311 | 1.052249 |
| 437 | 0.916579 | 0.933755 | 0.953223 | 0.967687 | 1 | 1.033392 | 1.067899 | 1.103558 | 1.140408 | 1.178488 | 1.21784 | 1.258506 | 1.30053 | 1.343957 |
| 438 | 0.983131 | 0.984891 | 0.985904 | 0.990259 | 1 | 1.009837 | 1.01977 | 1.029802 | 1.039932 | 1.050161 | 1.060491 | 1.070923 | 1.081458 | 1.092096 |
| 439 | 0.869866 | 0.906409 | 0.912716 | 0.978887 | 1 | 1.021569 | 1.043602 | 1.066112 | 1.089106 | 1.112597 | 1.136594 | 1.161109 | 1.186152 | 1.211736 |
| 440 | 0.941888 | 0.940165 | 0.949753 | 0.974054 | 1 | 1.026637 | 1.053984 | 1.082059 | 1.110882 | 1.140473 | 1.170852 | 1.202041 | 1.23406 | 1.266932 |
| 441 | 0.928205 | 0.939539 | 0.958938 | 0.976157 | | 1.024426 | 1.049448 | 1.075082 | 1.101342 | 1.128243 | 1.155801 | 1.184033 | 1.212954 | 1.242581 |
| 442 | 1.016503 | 1.008056 | 0.996905 | 0.979075 | 1 | 1.021372 | 1.0432 | 1.065496 | 1.088267 | 1.111526 | 1.135281 | 1.159544 | 1.184326 | 1.209637 |
| 443 | 0.944493 | 0.936814 | | 0.981838 | | 1.018498 | | 1.056526 | | | | | | |
| 444 | 0.944493 | 0.936814 | | 0.981838 | | 1.018498 | | | 1.076069 | | | 1.136895 | | |
| 445 | | | | | | 1.024452 | 1.049502 | 1.075165 | | | | | | |
| 446 | 0.924672 | 0.942315 | | | | 1.018424 | 1.037187 | 1.056297 | 1.075758 | | 1.115762 | 1.136319 | | |
| 447 | 0.87519 | | 0.940033 | 0.96663 | | 1.034522 | 1.070235 | | 1.145404 | | | 1.26817 | 1.311949 | |
| 448 449 | 0.963421 0.944712 | 0.969289 0.948623 | | 0.96215 0.978561 | | 1.039339 1.021909 | | | 1.090558 | 1.212794 1.11445 | | 1.310092 1.163818 | 1.36163 1.189316 | |
| 449 | | | | 0.976798 | | 1.021909 | | 1.072966 | | | | | | 1.235257 |
| 451 | 0.837333 | 0.976965 | 0.9847 | 0.983124 | | 1.023733 | | 1.052387 | 1.070452 | | 1.107518 | 1.12653 | | |
| 452 | 0.980946 | | | | | 1.017166 | | 1.052387 | 1.070452 | 1.088827 | 1.107518 | 1.12653 | | |
| 453 | | | | | | | 1.034627 | 1.052387 | 1.070452 | | | | | |
| 454 | 0.949223 | 0.960651 | 0.968388 | | | 1.026387 | 1.053469 | 1.081267 | 1.109798 | | 1.169138 | | | 1.26415 |
| 455 | 0.93451 | 0.946864 | 0.970367 | 0.974292 | 1 | 1.026387 | 1.053469 | 1.081267 | 1.109798 | 1.139082 | 1.169138 | 1.199988 | 1.231651 | 1.26415 |
| 456 | 0.894236 | 0.915483 | 0.942578 | 0.976765 | 1 | 1.023788 | 1.048142 | 1.073075 | 1.098601 | 1.124734 | 1.15149 | 1.178881 | 1.206924 | 1.235634 |
| 457 | 0.953478 | 0.95344 | 0.964157 | 0.975722 | 1 | 1.024882 | 1.050382 | 1.076517 | 1.103303 | 1.130755 | 1.15889 | 1.187725 | 1.217277 | 1.247565 |
| 458 | 0.926277 | 0.937484 | 0.961373 | 0.976647 | 1 | 1.023911 | 1.048394 | 1.073462 | 1.099129 | 1.125411 | 1.15232 | 1.179873 | 1.208085 | 1.236972 |
| 459 | 0.880727 | 0.907986 | | 0.976647 | | 1.023911 | 1.048394 | 1.073462 | 1.099129 | | 1.15232 | 1.179873 | 1.208085 | |
| 460 | 0.907437 | 0.937083 | 0.95417 | 0.976647 | + | 1.023911 | 1.048394 | 1.073462 | 1.099129 | | 1.15232 | 1.179873 | 1.208085 | 1.236972 |
| 461 | | | | | | 1.028514 | | 1.088004 | | | | | | |
| 462 | 0.858903 | 0.908153 | | | | 1.023017 | 1.046564 | | 1.095296 | | | 1.172681 | | |
| 463 | 0.897143 | 0.935029 | | | + | 1.027137 | 1.055011 | 1.083641 | | 1.143254 | | | 1.238877 | |
| 464 | 0.95763 | 0.966785 0.912887 | 0.97186 | | | 1.023659 | 1.047877 | 1.072669 | | | | | 1.205708 | |
| 465 466 | | | 0.941483 0.967974 | | + | 1.026937 1.022408 | 1.0546 1.045317 | 1.083009 1.06874 | 1.112182 | 1.142141 1.117173 | 1.172908 1.142206 | | 1.236949 1.193968 | |
| 467 | 0.949233 | 0.936178 | 0.966701 | 0.978084 | + | 1.022408 | 1.043317 | 1.087177 | 1.117893 | | | | | |
| 468 | | | 0.958489 | | | 1.028233 | | 1.069745 | 1.094058 | | | 1.170363 | | |
| 469 | | | 0.958489 | | | 1.022728 | | 1.069745 | | 1.118924 | | 1.170363 | | |
| 470 | | 0.928198 | 0.94672 | 0.973797 | | 1.026908 | 1.054539 | | 1.112053 | | | 1.204258 | | 1.269937 |
| 471 | | | | 0.98353 | | 1.016746 | | 1.051084 | 1.068685 | | | 1.123277 | 1.142087 | |
| 472 | 0.935491 | | 0.966447 | 0.978851 | | 1.021605 | 1.043678 | 1.066227 | 1.089263 | | 1.13684 | 1.161402 | 1.186495 | |
| 473 | | 0.925281 | 0.94676 | | | 1.025401 | | 1.078154 | | 1.133621 | 1.162415 | | | |
| 474 | 0.873488 | 0.900915 | 0.939026 | 0.973677 | 1 | 1.027035 | 1.054801 | 1.083317 | 1.112604 | 1.142683 | 1.173576 | 1.205303 | 1.237888 | 1.271355 |
| 475 | 0.926443 | 0.948854 | 0.96326 | 0.974433 | 1 | 1.026238 | 1.053165 | 1.080798 | 1.109156 | 1.138258 | 1.168123 | 1.198773 | 1.230226 | 1.262505 |
| 476 | 0.906154 | 0.93101 | 0.952567 | 0.974433 | 1 | 1.026238 | 1.053165 | 1.080798 | 1.109156 | 1.138258 | 1.168123 | 1.198773 | 1.230226 | 1.262505 |
| 477 | | 0.953218 | | | | 1.026238 | | | | | 1.168123 | | | |
| 478 | | | | | | 1.023895 | 1.048362 | | 1.099062 | | | | 1.207937 | |
| 479 | | | | | + | 1.023895 | | | | | | 1.179747 | | |
| 480 | 0.948551 | 0.960712 | 0.963775 | 0.968708 | 1 | 1.032303 | 1.065649 | 1.100073 | 1.135609 | 1.172292 | 1.210161 | 1.249253 | 1.289607 | 1.331266 |

| 401 | 0.024240 | 0.053300 | 0.000043 | 0.070003 | 1 | 1 022005 | 1.040262 | 1 072412 | 1 000000 | 1 125224 | 1 152214 | 1 170747 | 1 207027 | 1 220001 |
|-----|----------|----------|----------|----------|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 481 | 0.934319 | 0.952398 | | | | 1.023895 | 1.048362 | 1.073412 | 1.099062 | 1.125324 | | 1.179747 | 1.207937 | 1.236801 |
| 482 | 0.919032 | 0.937027 | 0.954203 | 0.972253 | | 1.028539 | 1.057892 | 1.088082 | 1.119135 | | 1.183923 | 1.217711 | 1.252463 | |
| 483 | 0.925508 | 0.942214 | 0.961955 | 0.974533 | | 1.026133 | 1.052949 | 1.080465 | 1.108701 | 1.137675 | 1.167406 | | 1.229218 | |
| 484 | 0.935611 | 0.948607 | 0.964316 | 0.974533 | | 1.026133 | 1.052949 | 1.080465 | 1.108701 | 1.137675 | 1.167406 | 1.197913 | 1.229218 | |
| 485 | 0.948425 | 0.960925 | 0.980254 | 0.987984 | - | 1.012162 | 1.024473 | 1.036933 | 1.049545 | 1.06231 | 1.07523 | 1.088307 | 1.101544 | |
| 486 | 0.932983 | 0.94819 | 0.969509 | 0.992386 | | 1.007673 | 1.015404 | 1.023195 | 1.031045 | 1.038956 | | 1.05496 | 1.063054 | |
| 487 | 0.89397 | 0.924963 | 0.952301 | 0.974793 | | 1.025858 | 1.052386 | 1.079599 | 1.107515 | 1.136154 | 1.165533 | 1.195672 | 1.22659 | |
| 488 | 0.958978 | 0.956053 | 0.968856 | 0.980459 | | 1.01993 | 1.040257 | 1.06099 | 1.082135 | 1.103702 | 1.125699 | 1.148134 | 1.171017 | 1.194355 |
| 489 | 0.934391 | 0.948902 | 0.951621 | 0.978475 | | 1.021998 | 1.044481 | 1.067458 | 1.09094 | | | | 1.19015 | |
| 490 | 0.934391 | 0.948902 | 0.951621 | 0.978475 | - | 1.021998 | 1.044481 | 1.067458 | 1.09094 | 1.114939 | 1.139466 | 1.164532 | 1.19015 | 1.216332 |
| 491 | 0.934701 | 0.949217 | 0.952965 | 0.97595 | | 1.024643 | 1.049893 | 1.075765 | 1.102275 | | | 1.18579 | 1.215011 | 1.244952 |
| 492 | 0.93326 | 0.945896 | 0.954529 | 0.974417 | | 1.026255 | 1.0532 | 1.080851 | 1.109229 | | 1.16824 | 1.198912 | 1.23039 | |
| 493 | 0.962541 | 0.967152 | 0.980877 | 0.990176 | | 1.009922 | 1.019942 | 1.030062 | 1.040282 | 1.050604 | 1.061027 | 1.071555 | 1.082187 | 1.092924 |
| 494 | 0.947632 | 0.948598 | 0.953905 | 0.973616 | | 1.027099 | 1.054933 | 1.08352 | 1.112883 | 1.143041 | 1.174016 | | 1.238508 | |
| 495 | 0.909649 | 0.924467 | 0.95354 | 0.973616 | 1 | 1.027099 | 1.054933 | 1.08352 | 1.112883 | 1.143041 | 1.174016 | 1.205831 | 1.238508 | 1.272071 |
| 496 | 0.953693 | 0.948448 | 0.950985 | 0.973616 | 1 | 1.027099 | 1.054933 | 1.08352 | 1.112883 | 1.143041 | 1.174016 | 1.205831 | 1.238508 | 1.272071 |
| 497 | 0.953693 | 0.948448 | 0.950985 | 0.973616 | 1 | 1.027099 | 1.054933 | 1.08352 | 1.112883 | 1.143041 | 1.174016 | | 1.238508 | 1.272071 |
| 498 | 0.953693 | 0.948448 | 0.950985 | 0.973616 | 1 | 1.027099 | 1.054933 | 1.08352 | 1.112883 | 1.143041 | 1.174016 | 1.205831 | 1.238508 | 1.272071 |
| 499 | 0.925526 | 0.926239 | 0.945564 | | 1 | 1.029928 | 1.060751 | 1.092497 | 1.125193 | | 1.19355 | | 1.26606 | |
| 500 | 0.925526 | 0.926239 | 0.945564 | 0.970942 | 1 | 1.029928 | 1.060751 | 1.092497 | 1.125193 | 1.158868 | 1.19355 | 1.229271 | 1.26606 | 1.303951 |
| 501 | 0.924437 | 0.938044 | 0.952355 | 0.978572 | 1 | 1.021898 | 1.044275 | 1.067142 | 1.090509 | 1.114389 | 1.138791 | 1.163728 | 1.189211 | 1.215251 |
| 502 | 0.928198 | 0.938037 | 0.950299 | 0.978572 | 1 | 1.021898 | 1.044275 | 1.067142 | 1.090509 | 1.114389 | 1.138791 | 1.163728 | 1.189211 | 1.215251 |
| 503 | 0.91612 | 0.934305 | 0.95172 | 0.978572 | 1 | 1.021898 | 1.044275 | 1.067142 | 1.090509 | 1.114389 | 1.138791 | 1.163728 | 1.189211 | 1.215251 |
| 504 | 0.931968 | 0.945546 | 0.962294 | 0.977271 | 1 | 1.023258 | 1.047057 | 1.071409 | 1.096328 | 1.121826 | 1.147918 | 1.174616 | 1.201935 | 1.22989 |
| 505 | 0.931968 | 0.945546 | 0.962294 | 0.977271 | 1 | 1.023258 | 1.047057 | 1.071409 | 1.096328 | 1.121826 | 1.147918 | 1.174616 | 1.201935 | 1.22989 |
| 506 | 0.914095 | 0.929644 | 0.948127 | 0.968466 | 1 | 1.032561 | 1.066183 | 1.100899 | 1.136745 | 1.173759 | 1.211978 | 1.251441 | 1.29219 | 1.334265 |
| 507 | 0.910258 | 0.928391 | 0.950819 | 0.970608 | 1 | 1.030282 | 1.06148 | 1.093624 | 1.126741 | 1.16086 | 1.196013 | 1.232231 | 1.269545 | 1.307989 |
| 508 | 0.863492 | 0.892074 | 0.926915 | 0.974123 | 1 | 1.026565 | 1.053835 | 1.08183 | 1.110569 | 1.140071 | 1.170357 | 1.201448 | 1.233364 | 1.266128 |
| 509 | 0.942355 | 0.954323 | 0.964227 | 0.980671 | 1 | 1.01971 | 1.039808 | 1.060303 | 1.081201 | 1.102512 | 1.124242 | 1.146401 | 1.168996 | 1.192037 |
| 510 | 0.909792 | 0.930526 | 0.95156 | 0.969501 | 1 | 1.031458 | 1.063906 | 1.097374 | 1.131896 | 1.167503 | 1.204231 | 1.242114 | 1.281188 | 1.321492 |
| 511 | 0.926317 | 0.947132 | 0.961758 | 0.97908 | 1 | 1.021367 | 1.04319 | 1.065479 | 1.088245 | 1.111497 | 1.135246 | 1.159502 | 1.184277 | 1.209581 |
| 512 | 0.883409 | 0.910318 | 0.940671 | 0.977315 | 1 | 1.023211 | 1.046961 | 1.071263 | 1.096128 | 1.121571 | 1.147604 | 1.174241 | 1.201497 | 1.229385 |
| 513 | 0.916299 | 0.946491 | 0.964487 | 0.978378 | 1 | 1.022099 | 1.044687 | 1.067774 | 1.091371 | 1.11549 | 1.140142 | 1.165338 | 1.191091 | 1.217414 |
| 514 | 0.919732 | 0.942311 | 0.968349 | 0.992041 | 1 | 1.008023 | 1.01611 | 1.024262 | 1.032479 | 1.040762 | 1.049112 | 1.057529 | 1.066013 | 1.074565 |
| 515 | 0.914632 | 0.935568 | 0.962248 | 0.975849 | 1 | 1.024749 | 1.050111 | 1.0761 | 1.102732 | 1.130024 | 1.157991 | 1.18665 | 1.216019 | 1.246114 |
| 516 | 0.914632 | 0.935568 | 0.962248 | 0.975849 | 1 | 1.024749 | 1.050111 | 1.0761 | 1.102732 | 1.130024 | 1.157991 | 1.18665 | 1.216019 | 1.246114 |
| 517 | 0.944841 | 0.949074 | 0.959939 | 0.978657 | 1 | 1.021809 | 1.044094 | 1.066864 | 1.090131 | 1.113906 | 1.138199 | 1.163022 | 1.188386 | 1.214304 |
| 518 | 0.924585 | 0.939581 | 0.952683 | 0.976925 | 1 | 1.02362 | 1.047797 | 1.072546 | 1.097879 | 1.12381 | 1.150354 | 1.177525 | 1.205338 | 1.233807 |
| 519 | 0.921043 | 0.941914 | 0.965677 | 0.975818 | 1 | 1.024782 | 1.050177 | 1.076202 | 1.102872 | 1.130203 | 1.158211 | 1.186913 | 1.216327 | 1.246469 |
| 520 | 0.857452 | 0.956848 | 1.00081 | 0.971622 | 1 | 1.029207 | 1.059267 | 1.090204 | 1.122046 | 1.154817 | 1.188545 | 1.223259 | 1.258986 | 1.295757 |
| 521 | 0.867731 | 0.902128 | 0.944673 | 0.973594 | 1 | 1.027122 | 1.05498 | 1.083593 | 1.112982 | 1.143168 | 1.174173 | 1.206019 | 1.238729 | 1.272326 |
| 522 | 1.024717 | 1.068094 | 1.090555 | 0.973594 | 1 | 1.027122 | 1.05498 | 1.083593 | 1.112982 | 1.143168 | 1.174173 | 1.206019 | 1.238729 | 1.272326 |
| 523 | 0.88061 | 0.91041 | 0.943433 | 0.973594 | 1 | 1.027122 | 1.05498 | 1.083593 | 1.112982 | 1.143168 | 1.174173 | 1.206019 | 1.238729 | 1.272326 |
| 524 | 0.884947 | 0.920026 | 0.963415 | 0.99291 | 1 | 1.00714 | 1.014331 | 1.021574 | 1.028868 | 1.036215 | 1.043613 | 1.051065 | 1.05857 | 1.066128 |
| 525 | 1.025605 | 1.069019 | 1.0915 | 0.974438 | 1 | 1.026233 | 1.053154 | 1.080782 | 1.109134 | 1.13823 | 1.168089 | 1.198732 | 1.230178 | 1.262449 |
| 526 | 0.881373 | 0.911199 | 0.94425 | 0.974438 | 1 | 1.026233 | 1.053154 | 1.080782 | 1.109134 | 1.13823 | 1.168089 | 1.198732 | 1.230178 | 1.262449 |
| 527 | 0.936917 | 0.948357 | 0.967939 | 0.985319 | 1 | 1.019119 | 1.038604 | 1.058462 | 1.078699 | 1.099323 | 1.120342 | 1.141762 | 1.163592 | 1.185839 |
| 528 | 0.936917 | 0.948357 | 0.967939 | 0.985319 | 1 | 1.019119 | 1.038604 | 1.058462 | 1.078699 | 1.099323 | 1.120342 | 1.141762 | 1.163592 | 1.185839 |
| 529 | 0.936917 | 0.948357 | 0.967939 | 0.985319 | 1 | 1.019119 | 1.038604 | 1.058462 | 1.078699 | | 1.120342 | 1.141762 | 1.163592 | 1.185839 |
| 530 | 0.936917 | 0.948357 | 0.967939 | 0.985319 | 1 | 1.019119 | 1.038604 | 1.058462 | 1.078699 | 1.099323 | 1.120342 | 1.141762 | 1.163592 | 1.185839 |
| 531 | 0.936917 | 0.948357 | 0.967939 | | | 1.019119 | | 1.058462 | 1.078699 | | | 1.141762 | 1.163592 | |
| 532 | 0.936917 | 0.948357 | 0.967939 | | | 1.019119 | | 1.058462 | 1.078699 | | 1.120342 | 1.141762 | 1.163592 | 1.185839 |
| 533 | 0.936917 | 0.948357 | 0.967939 | | - | 1.019119 | | 1.058462 | 1.078699 | | 1.120342 | 1.141762 | 1.163592 | 1.185839 |
| 534 | 0.936917 | 0.948357 | 0.967939 | 0.985319 | | 1.019119 | 1.038604 | 1.058462 | 1.078699 | | 1.120342 | 1.141762 | 1.163592 | 1.185839 |
| 535 | 0.936917 | 0.948357 | 0.967939 | | | 1.019119 | 1.038604 | 1.058462 | 1.078699 | 1.099323 | 1.120342 | 1.141762 | 1.163592 | 1.185839 |
| 536 | | 0.948357 | 0.967939 | | - | 1.019119 | 1.038604 | 1.058462 | 1.078699 | | | 1.141762 | 1.163592 | |
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